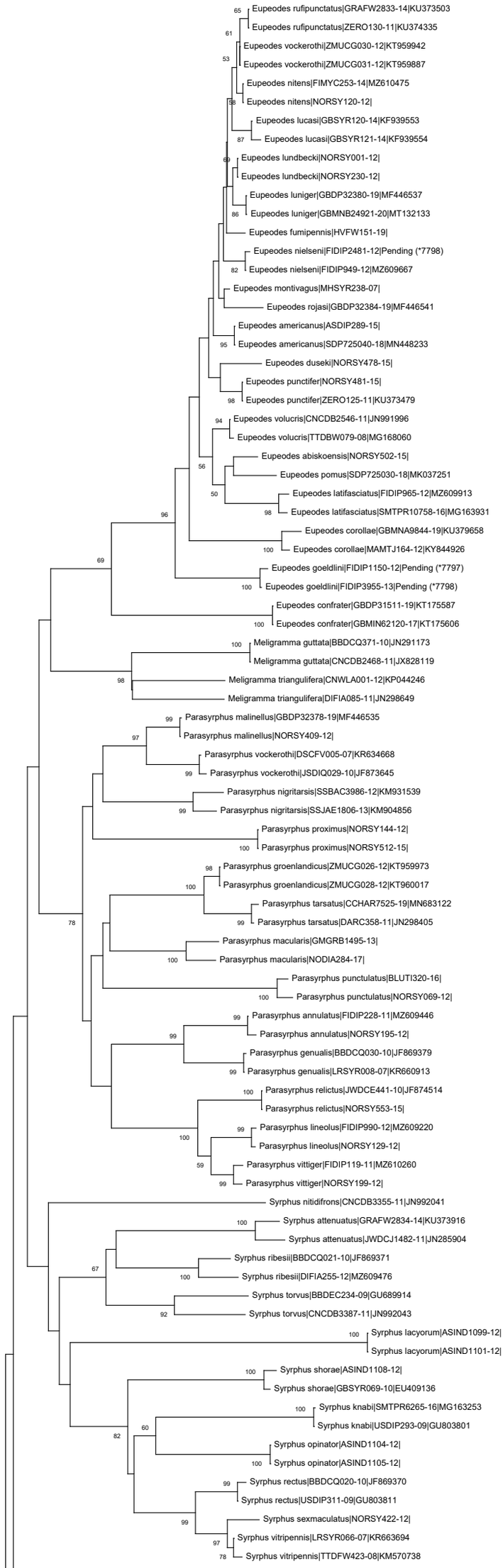
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Eupeodes vockerothi|ZMUCG031-12|KT959887
Eupeodes nitens|FIMYC253-14|MZ610475
Eupeodes nitens|NORSY120-12|
Eupeodes lucasi|GBSYR120-14|KF939553
Eupeodes lucasi|GBSYR121-14|KF939554
Eupeodes lundbecki|NORSY001-12|
Eupeodes lundbecki|NORSY230-12|
Eupeodes luniger|GBDP32380-19|MF446537
Eupeodes luniger|GBMNB24921-20|MT132133
Eupeodes fumipennis|HVFW151-19|
Eupeodes nielseni|FIDIP2481-12|Pending (*7798)
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Eupeodes montivagus|MHSYR238-07|
Eupeodes rojasi|GBDP32384-19|MF446541
Eupeodes americanus|ASDIP289-15|
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Eupeodes duseki|NORSY478-15|
Eupeodes punctifer|NORSY481-15|
Eupeodes punctifer|ZERO125-11|KU373479
Eupeodes volucris|CNCDB2546-11|JN991996
Eupeodes volucris|TTDBW079-08|MG168060
Eupeodes abiskoensis|NORSY502-15|
Eupeodes pomus|SDP725030-18|MK037251
Eupeodes latifasciatus|FIDIP965-12|MZ609913
Eupeodes latifasciatus|SMTPR10758-16|MG163931
Eupeodes corollae|GBMNA9844-19|KU379658
Eupeodes corollae|MAMTJ164-12|KY844926
Eupeodes goeldlini|FIDIP1150-12|Pending (*7797)
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Meligramma guttata|BBDCQ371-10|JN291173
Meligramma guttata|CNCDB2468-11|JX828119
Meligramma triangulifera|CNWLA001-12|KP044246
Meligramma triangulifera|DIFIA085-11|JN298649
Parasyrphus malinellus|GBDP32378-19|MF446535
Parasyrphus malinellus|NORSY409-12|
Parasyrphus vockerothi|DSCFV005-07|KR634668
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Parasyrphus nigritarsis|SSBAC3986-12|KM931539
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Parasyrphus proximus|NORSY144-12|
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Parasyrphus groenlandicus|ZMUCG026-12|KT959973
Parasyrphus groenlandicus|ZMUCG028-12|KT960017
Parasyrphus tarsatus|CCHAR7525-19|MN683122
Parasyrphus tarsatus|DARC358-11|JN298405
Parasyrphus macularis|GMGRB1495-13|
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Parasyrphus punctulatus|BLUTI320-16|
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Parasyrphus annulatus|FIDIP228-11|MZ609446
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Parasyrphus genualis|BBDCQ030-10|JF869379
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Parasyrphus relictus|JWDCE441-10|JF874514
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Parasyrphus lineolus|FIDIP990-12|MZ609220
Parasyrphus lineolus|NORSY129-12|
Parasyrphus vittiger|FIDIP119-11|MZ610260
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Syrphus attenuatus|JWDCJ1482-11|JN285904
Syrphus ribesii|BBDCQ021-10|JF869371
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Syrphus torvus|BBDEC234-09|GU689914
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Syrphus lacyorum|ASIND1099-12|
Syrphus lacyorum|ASIND1101-12|
Syrphus shorae|ASIND1108-12|
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Syrphus knabi|SMTPR6265-16|MG163253
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Syrphus rectus|BBDCQ020-10|JF869370
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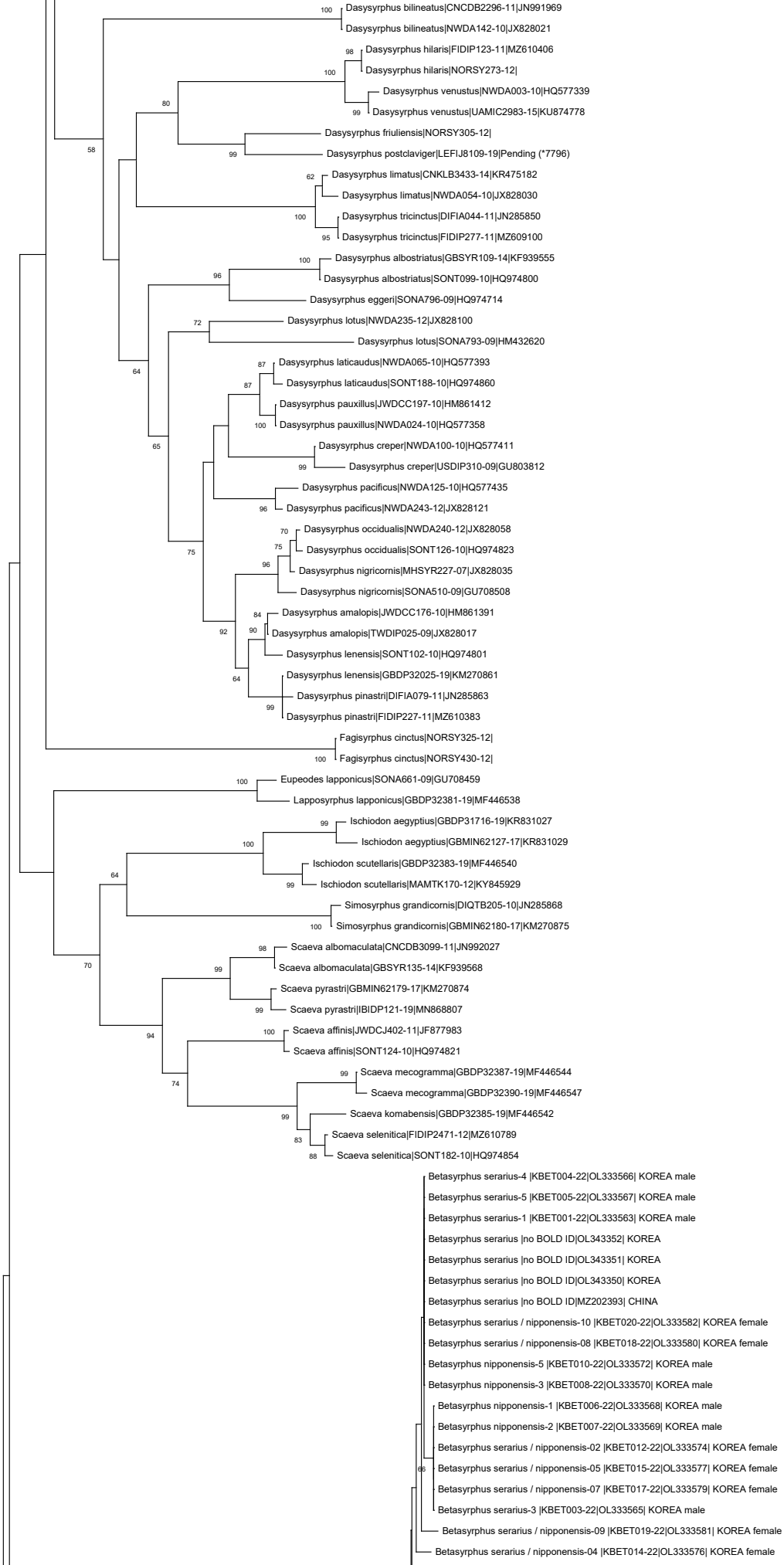
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Dasysyrphus venustus|NWDA003-10|HQ577339
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Dasysyrphus friuliensis|NORSY305-12|
Dasysyrphus postclaviger|LEFIJ8109-19|Pending (*7796)
Dasysyrphus limatus|CNKLB3433-14|KR475182
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Dasysyrphus tricinctus|DIFIA044-11|JN285850
Dasysyrphus tricinctus|FIDIP277-11|MZ609100
Dasysyrphus albostriatus|GBSYR109-14|KF939555
Dasysyrphus albostriatus|SONT099-10|HQ974800
Dasysyrphus eggeri|SONA796-09|HQ974714
Dasysyrphus lotus|NWDA235-12|JX828100
Dasysyrphus lotus|SONA793-09|HM432620
Dasysyrphus laticaudus|NWDA065-10|HQ577393
Dasysyrphus laticaudus|SONT188-10|HQ974860
Dasysyrphus pauxillus|JWDCC197-10|HM861412
Dasysyrphus pauxillus|NWDA024-10|HQ577358
Dasysyrphus creper|NWDA100-10|HQ577411
Dasysyrphus creper|USDIP310-09|GU803812
Dasysyrphus pacificus|NWDA125-10|HQ577435
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Dasysyrphus occidualis|NWDA240-12|JX828058
Dasysyrphus occidualis|SONT126-10|HQ974823
Dasysyrphus nigricornis|MHSYR227-07|JX828035
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Dasysyrphus amalopis|JWDCC176-10|HM861391
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Dasysyrphus lenensis|SONT102-10|HQ974801
Dasysyrphus lenensis|GBDP32025-19|KM270861
Dasysyrphus pinastri|DIFIA079-11|JN285863
Dasysyrphus pinastri|FIDIP227-11|MZ610383
Fagisyrphus cinctus|NORSY325-12|
Fagisyrphus cinctus|NORSY430-12|
Eupeodes lapponicus|SONA661-09|GU708459
Lapposyrphus lapponicus|GBDP32381-19|MF446538
Ischiodon aegyptius|GBDP31716-19|KR831027
Ischiodon aegyptius|GBMIN62127-17|KR831029
Ischiodon scutellaris|GBDP32383-19|MF446540
Ischiodon scutellaris|MAMTK170-12|KY845929
Simosyrphus grandicornis|DIQTB205-10|JN285868
Simosyrphus grandicornis|GBMIN62180-17|KM270875
Scaeva albomaculata|CNCDB3099-11|JN992027
Scaeva albomaculata|GBSYR135-14|KF939568
Scaeva pyrastri|GBMIN62179-17|KM270874
Scaeva pyrastri|IBIDP121-19|MN868807
Scaeva affinis|JWDCJ402-11|JF877983
Scaeva affinis|SONT124-10|HQ974821
Scaeva mecogramma|GBDP32387-19|MF446544
Scaeva mecogramma|GBDP32390-19|MF446547
Scaeva komabensis|GBDP32385-19|MF446542
Scaeva selenitica|FIDIP2471-12|MZ610789
Scaeva selenitica|SONT182-10|HQ974854
Betasyrphus serarius-4 |KBET004-22|OL333566| KOREA male
Betasyrphus serarius-5 |KBET005-22|OL333567| KOREA male
Betasyrphus serarius-1 |KBET001-22|OL333563| KOREA male
Betasyrphus serarius |no BOLD ID|OL343352| KOREA
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Betasyrphus serarius / nipponensis-10 |KBET020-22|OL333582| KOREA female
Betasyrphus serarius / nipponensis-08 |KBET018-22|OL333580| KOREA female
Betasyrphus nipponensis-5 |KBET010-22|OL333572| KOREA male
Betasyrphus nipponensis-3 |KBET008-22|OL333570| KOREA male
Betasyrphus nipponensis-1 |KBET006-22|OL333568| KOREA male
Betasyrphus nipponensis-2 |KBET007-22|OL333569| KOREA male
Betasyrphus serarius / nipponensis-02 |KBET012-22|OL333574| KOREA female
Betasyrphus serarius / nipponensis-05 |KBET015-22|OL333577| KOREA female
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Betasyrphus serarius-3 |KBET003-22|OL333565| KOREA male
Betasyrphus serarius / nipponensis-09 |KBET019-22|OL333581| KOREA female
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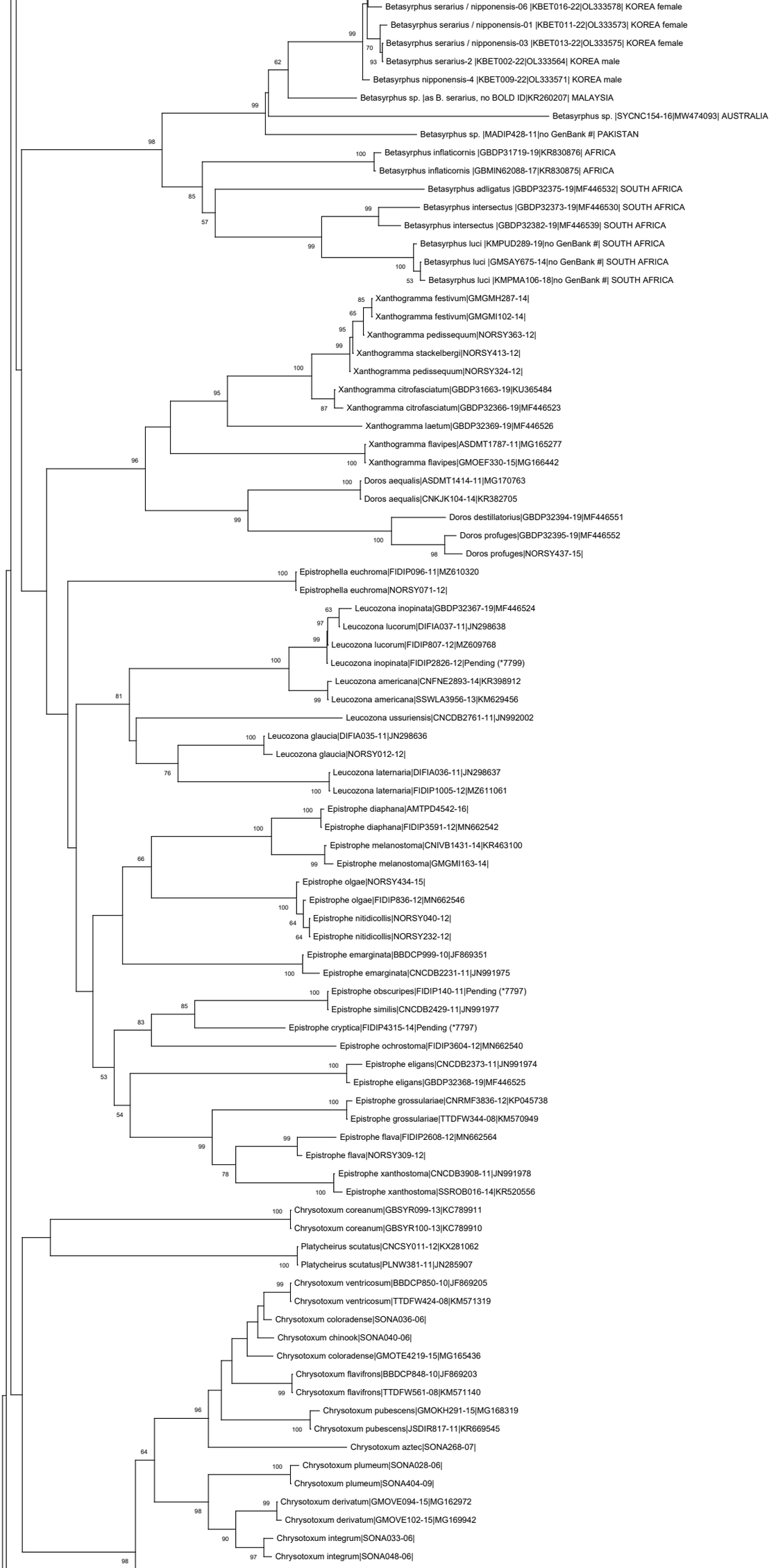
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Betasyrphus serarius / nipponensis-03 |KBET013-22|OL333575| KOREA female
Betasyrphus serarius-2 |KBET002-22|OL333564| KOREA male
Betasyrphus nipponensis-4 |KBET009-22|OL333571| KOREA male
Betasyrphus sp. |as B. serarius, no BOLD ID|KR260207| MALAYSIA
Betasyrphus sp. |SYCNC154-16|MW474093| AUSTRALIA
Betasyrphus sp. |MADIP428-11|no GenBank #| PAKISTAN
Betasyrphus inflaticornis |GBDP31719-19|KR830876| AFRICA
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Betasyrphus adligatus |GBDP32375-19|MF446532| SOUTH AFRICA
Betasyrphus intersectus |GBDP32373-19|MF446530| SOUTH AFRICA
Betasyrphus intersectus |GBDP32382-19|MF446539| SOUTH AFRICA
Betasyrphus luci |KMPUD289-19|no GenBank #| SOUTH AFRICA
Betasyrphus luci |GMSAY675-14|no GenBank #| SOUTH AFRICA
Betasyrphus luci |KMPMA106-18|no GenBank #| SOUTH AFRICA
Xanthogramma festivum|GMGMH287-14|
Xanthogramma festivum|GMGMI102-14|
Xanthogramma pedissequum|NORSY363-12|
Xanthogramma stackelbergi|NORSY413-12|
Xanthogramma pedissequum|NORSY324-12|
Xanthogramma citrofasciatum|GBDP31663-19|KU365484
Xanthogramma citrofasciatum|GBDP32366-19|MF446523
Xanthogramma laetum|GBDP32369-19|MF446526
Xanthogramma flavipes|ASDMT1787-11|MG165277
Xanthogramma flavipes|GMOEF330-15|MG166442
Doros aequalis|ASDMT1414-11|MG170763
Doros aequalis|CNKJK104-14|KR382705
Doros destillatorius|GBDP32394-19|MF446551
Doros profuges|GBDP32395-19|MF446552
Doros profuges|NORSY437-15|
Epistrophella euchroma|FIDIP096-11|MZ610320
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Leucozona inopinata|FIDIP2826-12|Pending (*7799)
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Leucozona ussuriensis|CNCDB2761-11|JN992002
Leucozona glaucia|DIFIA035-11|JN298636
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Epistrophe olgae|NORSY434-15|
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Epistrophe nitidicollis|NORSY040-12|
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Epistrophe obscuripes|FIDIP140-11|Pending (*7797)
Epistrophe similis|CNCDB2429-11|JN991977
Epistrophe cryptica|FIDIP4315-14|Pending (*7797)
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Epistrophe eligans|CNCDB2373-11|JN991974
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Chrysotoxum coreanum|GBSYR100-13|KC789910
Platycheirus scutatus|CNCSY011-12|KX281062
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Chrysotoxum ventricosum|BBDCP850-10|JF869205
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Chrysotoxum coloradense|SONA036-06|
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Chrysotoxum flavifrons|BBDCP848-10|JF869203
Chrysotoxum flavifrons|TTDFW561-08|KM571140
Chrysotoxum pubescens|GMOKH291-15|MG168319
Chrysotoxum pubescens|JSDIR817-11|KR669545
Chrysotoxum aztec|SONA268-07|
Chrysotoxum plumeum|SONA028-06|
Chrysotoxum plumeum|SONA404-09|
Chrysotoxum derivatum|GMOVE094-15|MG162972
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Chrysotoxum integrum|SONA033-06|
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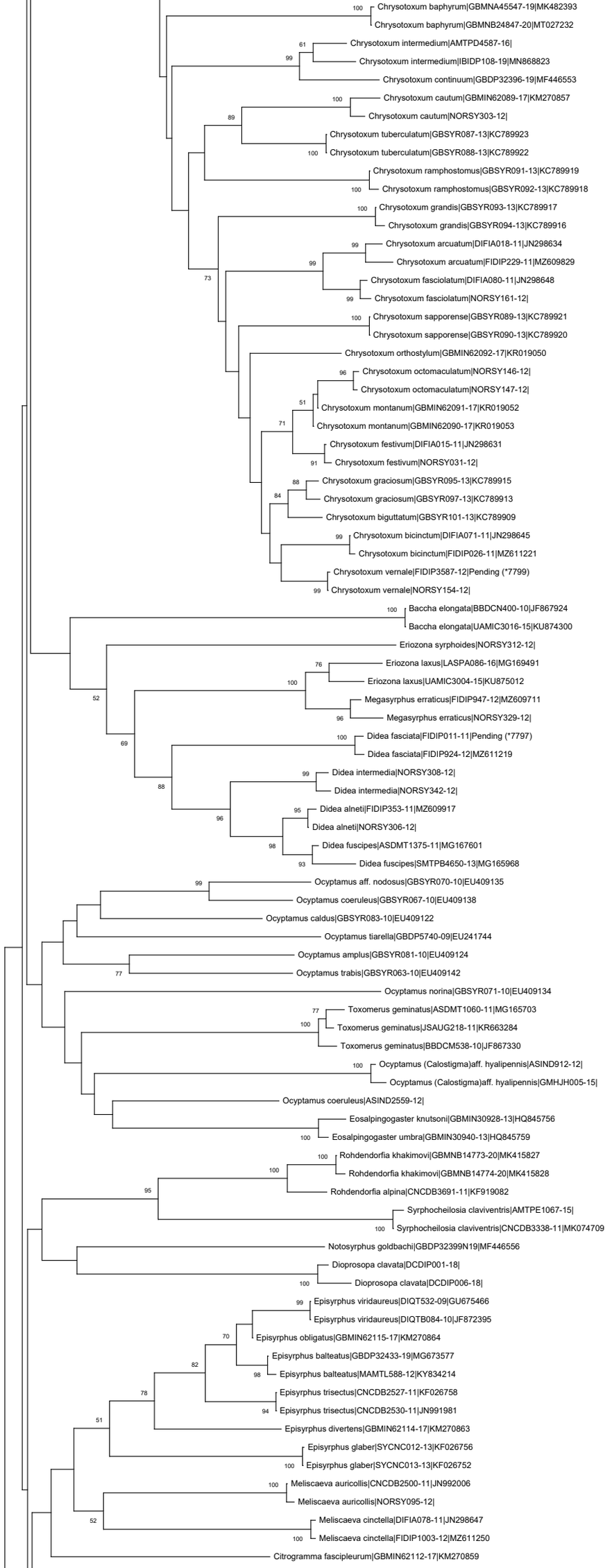
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Chrysotoxum continuum|GBDP32396-19|MF446553
Chrysotoxum cautum|GBMIN62089-17|KM270857
Chrysotoxum cautum|NORSY303-12|
Chrysotoxum tuberculatum|GBSYR087-13|KC789923
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Chrysotoxum ramphostomus|GBSYR091-13|KC789919
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Chrysotoxum grandis|GBSYR093-13|KC789917
Chrysotoxum grandis|GBSYR094-13|KC789916
Chrysotoxum arcuatum|DIFIA018-11|JN298634
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Chrysotoxum fasciolatum|DIFIA080-11|JN298648
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Chrysotoxum sapporense|GBSYR089-13|KC789921
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Chrysotoxum orthostylum|GBMIN62092-17|KR019050
Chrysotoxum octomaculatum|NORSY146-12|
Chrysotoxum octomaculatum|NORSY147-12|
Chrysotoxum montanum|GBMIN62091-17|KR019052
Chrysotoxum montanum|GBMIN62090-17|KR019053
Chrysotoxum festivum|DIFIA015-11|JN298631
Chrysotoxum festivum|NORSY031-12|
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Chrysotoxum graciosum|GBSYR097-13|KC789913
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Chrysotoxum bicinctum|DIFIA071-11|JN298645
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Chrysotoxum vernale|FIDIP3587-12|Pending (*7799)
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Eriozona syrphoides|NORSY312-12|
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Didea alneti|FIDIP353-11|MZ609917
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Ocyptamus aff. nodosus|GBSYR070-10|EU409135
Ocyptamus coeruleus|GBSYR067-10|EU409138
Ocyptamus caldus|GBSYR083-10|EU409122
Ocyptamus tiarella|GBDP5740-09|EU241744
Ocyptamus amplus|GBSYR081-10|EU409124
Ocyptamus trabis|GBSYR063-10|EU409142
Ocyptamus norina|GBSYR071-10|EU409134
Toxomerus geminatus|ASDMT1060-11|MG165703
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Toxomerus geminatus|BBDCM538-10|JF867330
Ocyptamus (Calostigma)aff. hyalipennis|ASIND912-12|
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Ocyptamus coeruleus|ASIND2559-12|
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Rohdendorfia khakimovi|GBMNB14773-20|MK415827
Rohdendorfia khakimovi|GBMNB14774-20|MK415828
Rohdendorfia alpina|CNCDB3691-11|KF919082
Syrphocheilosia claviventris|AMTPE1067-15|
Syrphocheilosia claviventris|CNCDB3338-11|MK074709
Notosyrphus goldbachi|GBDP32399N19|MF446556
Dioprosopa clavata|DCDIP001-18|
Dioprosopa clavata|DCDIP006-18|
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Episyrphus viridaureus|DIQTB084-10|JF872395
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Episyrphus trisectus|CNCDB2527-11|KF026758
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Episyrphus divertens|GBMIN62114-17|KM270863
Episyrphus glaber|SYCNC012-13|KF026756
Episyrphus glaber|SYCNC013-13|KF026752
Meliscaeva auricollis|CNCDB2500-11|JN992006
Meliscaeva auricollis|NORSY095-12|
Meliscaeva cinctella|DIFIA078-11|JN298647
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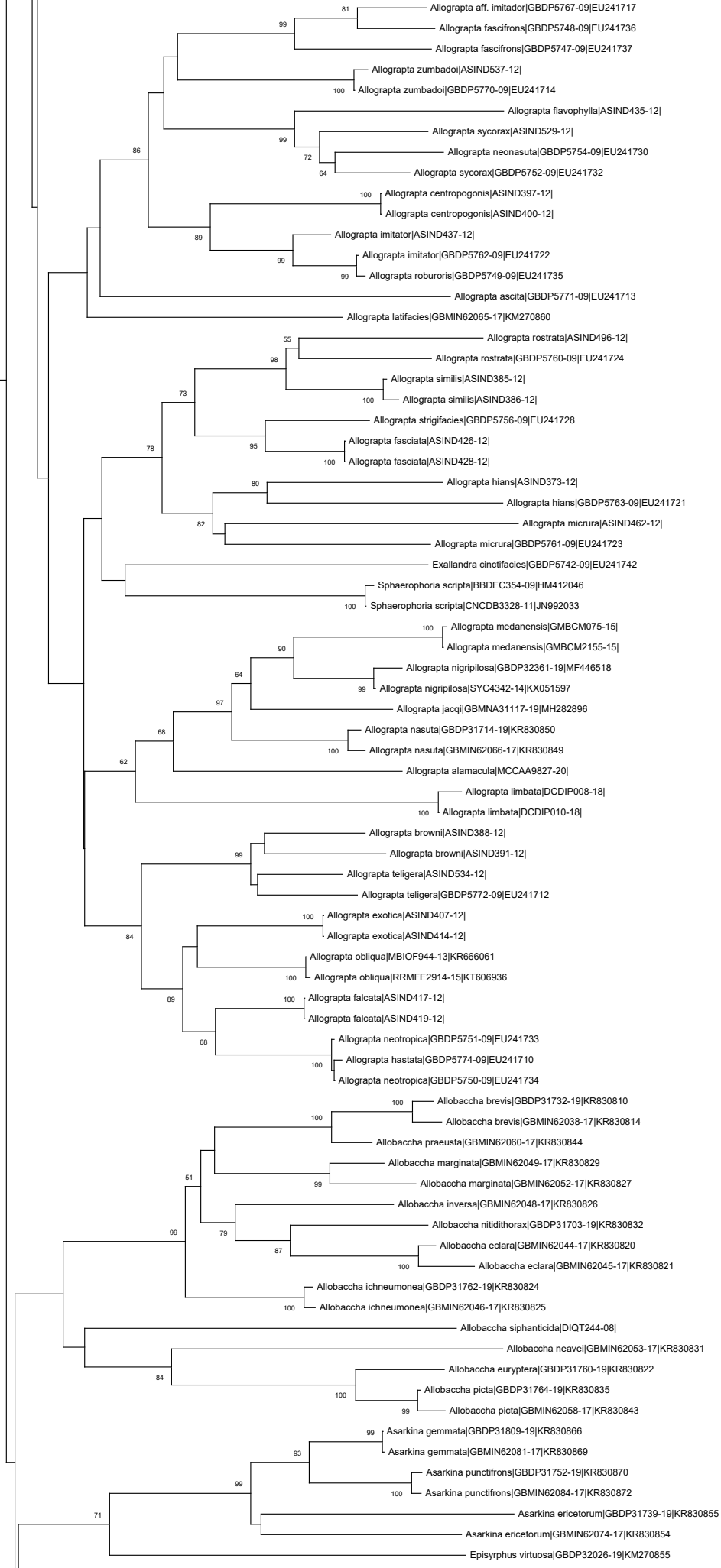
Citrogramma fascipleurum|GBMIN62112-17|KM270859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Allograpta zumbadoi|GBDP5770-09|EU241714
Allograpta flavophylla|ASIND435-12|
Allograpta sycorax|ASIND529-12|
Allograpta neonasuta|GBDP5754-09|EU241730
Allograpta sycorax|GBDP5752-09|EU241732
Allograpta centropogonis|ASIND397-12|
Allograpta centropogonis|ASIND400-12|
Allograpta imitator|ASIND437-12|
Allograpta imitator|GBDP5762-09|EU241722
Allograpta roburoris|GBDP5749-09|EU241735
Allograpta ascita|GBDP5771-09|EU241713
Allograpta latifacies|GBMIN62065-17|KM270860
Allograpta rostrata|ASIND496-12|
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Allograpta similis|ASIND385-12|
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Allograpta strigifacies|GBDP5756-09|EU241728
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Allograpta fasciata|ASIND428-12|
Allograpta hians|ASIND373-12|
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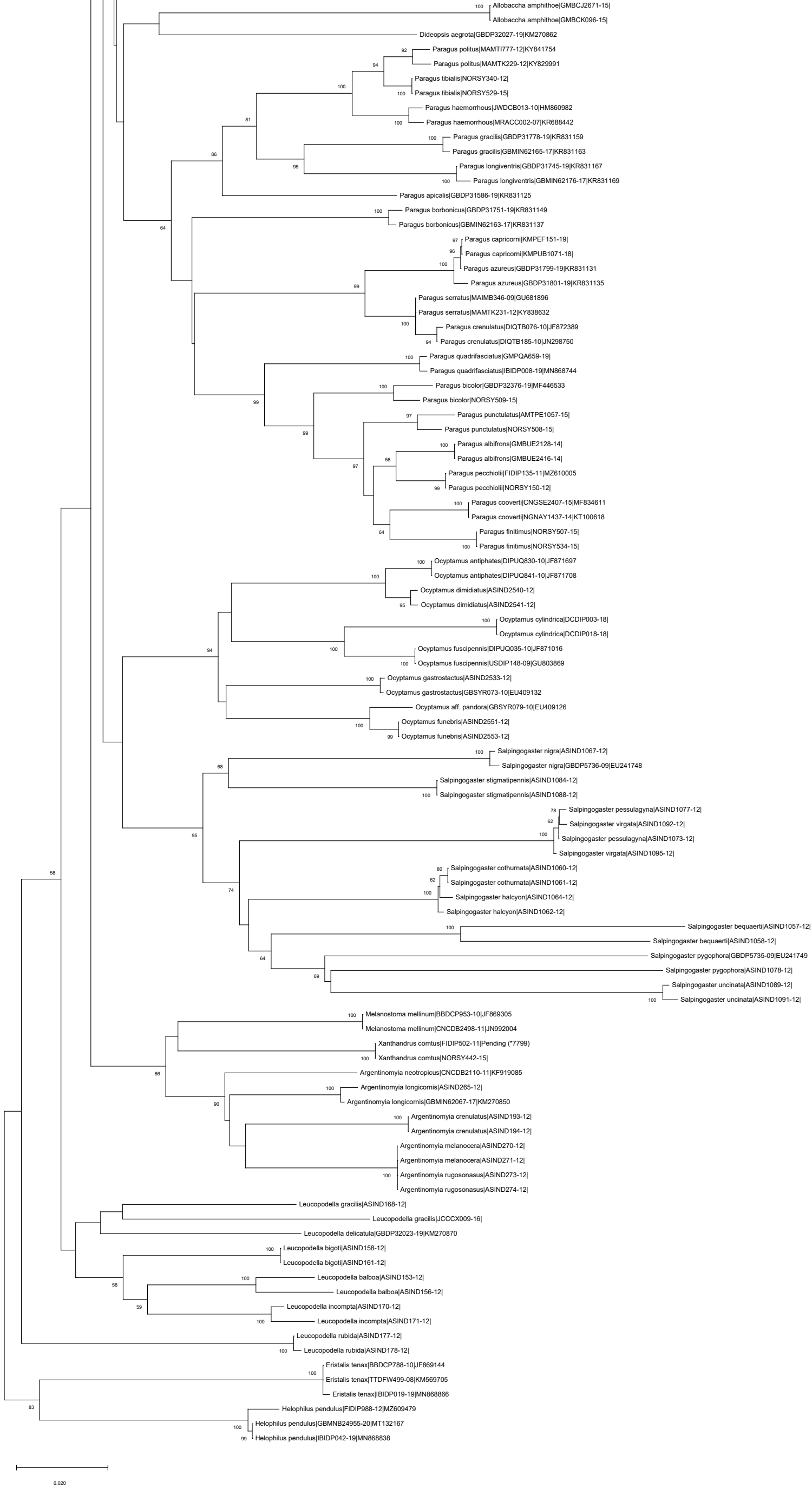
Allograpta micrura|ASIND462-12|
Allograpta micrura|GBDP5761-09|EU241723
Exallandra cinctifacies|GBDP5742-09|EU241742
Sphaerophoria scripta|BBDEC354-09|HM412046
Sphaerophoria scripta|CNCDB3328-11|JN992033
Allograpta medanensis|GMBCM075-15|
Allograpta medanensis|GMBCM2155-15|
Allograpta nigripilosa|GBDP32361-19|MF446518
Allograpta nigripilosa|SYC4342-14|KX051597
Allograpta jacqi|GBMNA31117-19|MH282896
Allograpta nasuta|GBDP31714-19|KR830850
Allograpta nasuta|GBMIN62066-17|KR830849
Allograpta alamacula|MCCAA9827-20|
Allograpta limbata|DCDIP008-18|
Allograpta limbata|DCDIP010-18|
Allograpta browni|ASIND388-12|
Allograpta browni|ASIND391-12|
Allograpta teligera|ASIND534-12|
Allograpta teligera|GBDP5772-09|EU241712
Allograpta exotica|ASIND407-12|
Allograpta exotica|ASIND414-12|
Allograpta obliqua|MBIOF944-13|KR666061
Allograpta obliqua|RRMFE2914-15|KT606936
Allograpta falcata|ASIND417-12|
Allograpta falcata|ASIND419-12|
Allograpta neotropica|GBDP5751-09|EU241733
Allograpta hastata|GBDP5774-09|EU241710
Allograpta neotropica|GBDP5750-09|EU241734
Allobaccha brevis|GBDP31732-19|KR830810
Allobaccha brevis|GBMIN62038-17|KR830814
Allobaccha praeusta|GBMIN62060-17|KR830844
Allobaccha marginata|GBMIN62049-17|KR830829
Allobaccha marginata|GBMIN62052-17|KR830827
Allobaccha inversa|GBMIN62048-17|KR830826
Allobaccha nitidithorax|GBDP31703-19|KR830832
Allobaccha eclara|GBMIN62044-17|KR830820
Allobaccha eclara|GBMIN62045-17|KR830821
Allobaccha ichneumonea|GBDP31762-19|KR830824
Allobaccha ichneumonea|GBMIN62046-17|KR830825
Allobaccha siphanticida|DIQT244-08|
Allobaccha neavei|GBMIN62053-17|KR830831
Allobaccha euryptera|GBDP31760-19|KR830822
Allobaccha picta|GBDP31764-19|KR830835
Allobaccha picta|GBMIN62058-17|KR830843
Asarkina gemmata|GBDP31809-19|KR830866
Asarkina gemmata|GBMIN62081-17|KR830869
Asarkina punctifrons|GBDP31752-19|KR830870
Asarkina punctifrons|GBMIN62084-17|KR830872
Asarkina ericetorum|GBDP31739-19|KR830855
Asarkina ericetorum|GBMIN62074-17|KR830854
Episyrphus virtuosa|GBDP32026-19|KM270855



Supplementary Figure 1. Neighbor-joining tree based on Kimura 2-parameter distance of 486 Syrphidae DNA barcode sequences mostly retrieved from BOLD Systems (www.boldsystems.org, as of March 2022) and GenBank (www.ncbi.nlm.nih.gov-/genbank/; as of March 2022), including 20 newly obtained Korean *Betasyrphus* sequences. Numbers on each corresponding node indicate the bootstrap values after 3000 replications (only values higher than 50% are shown).