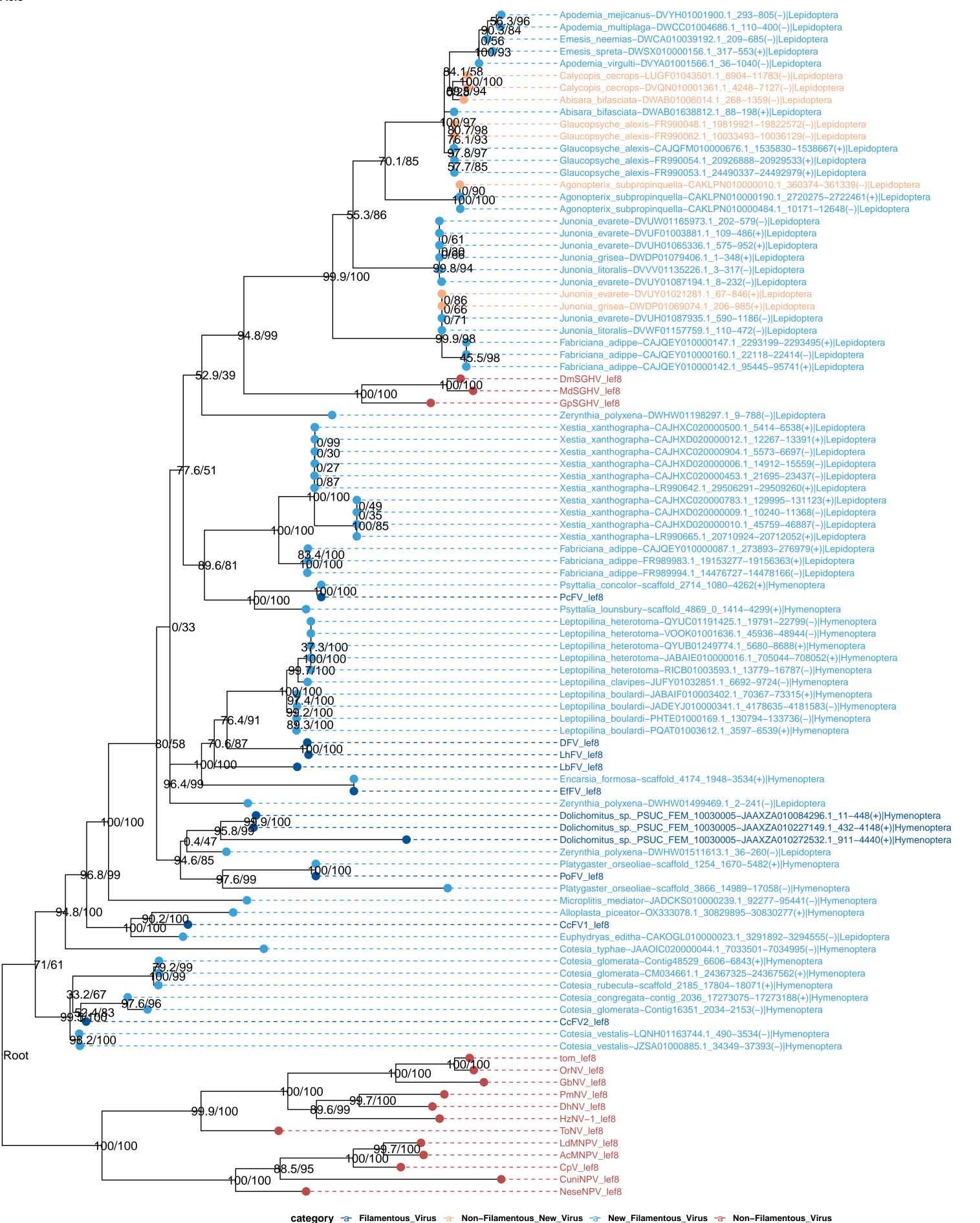
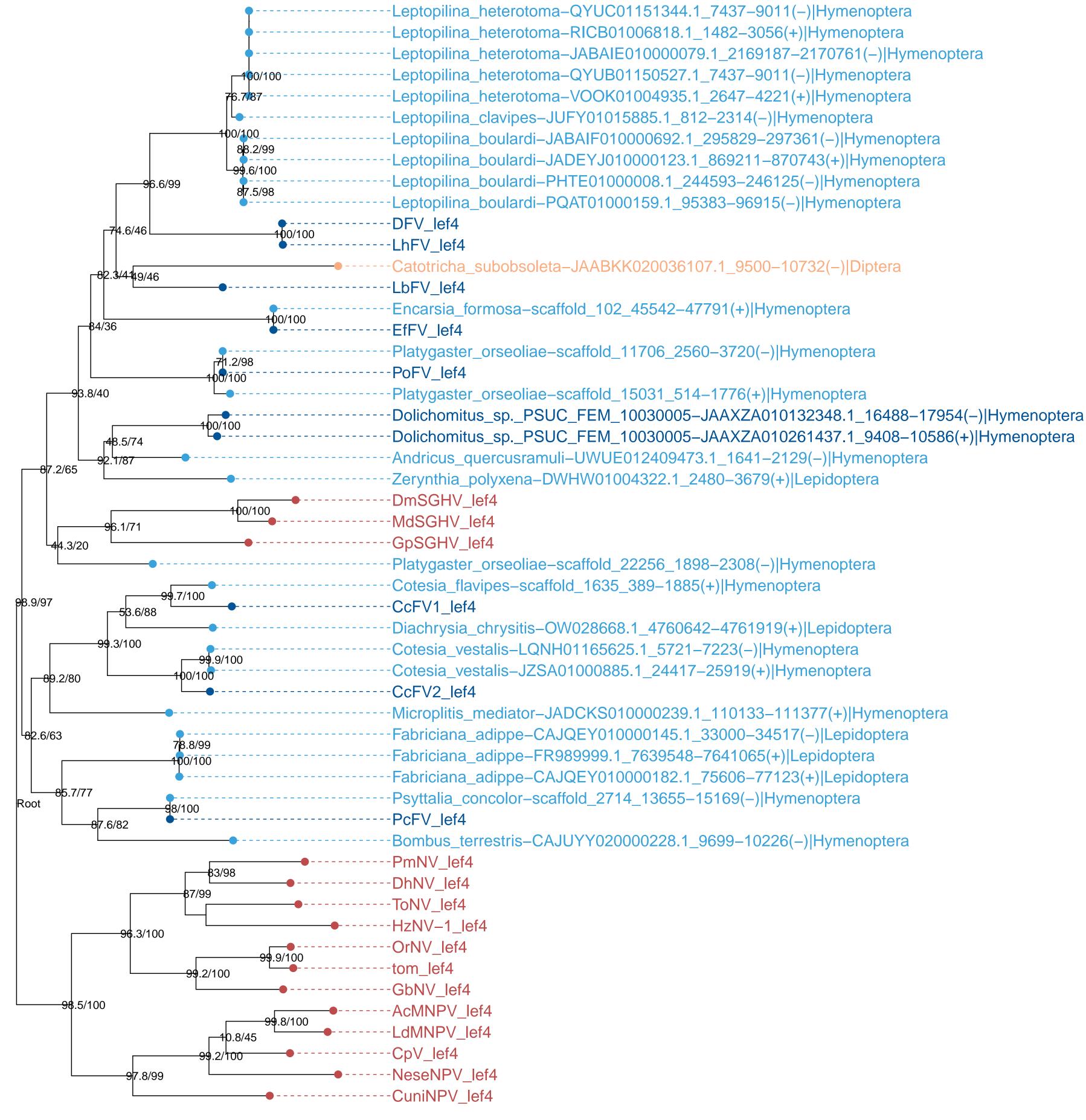
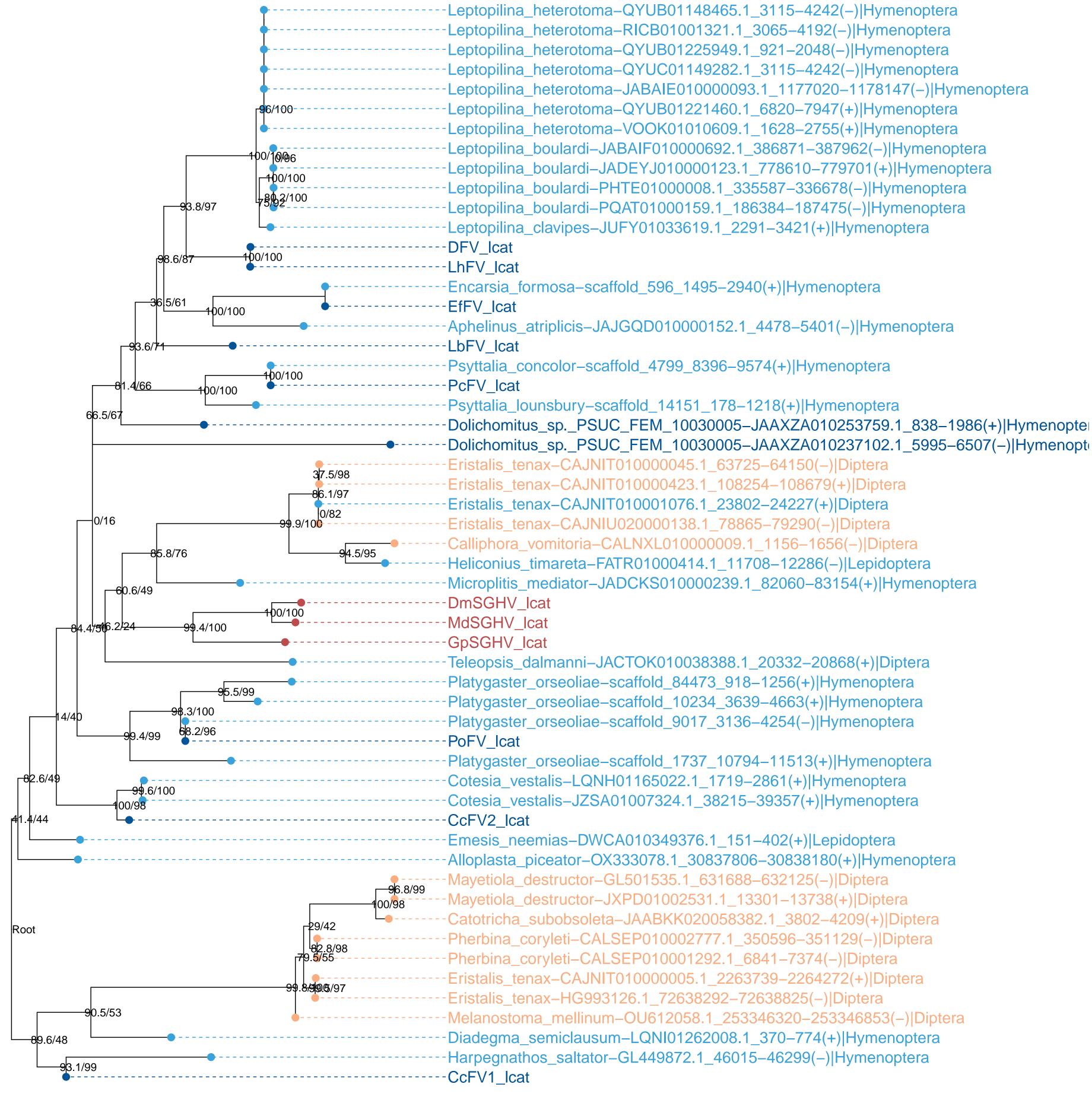


category -a Filamentous_Virus -a Non-Filamentous_New_Virus -a New_Filamentous_Virus -a Non-Filamentous_Virus



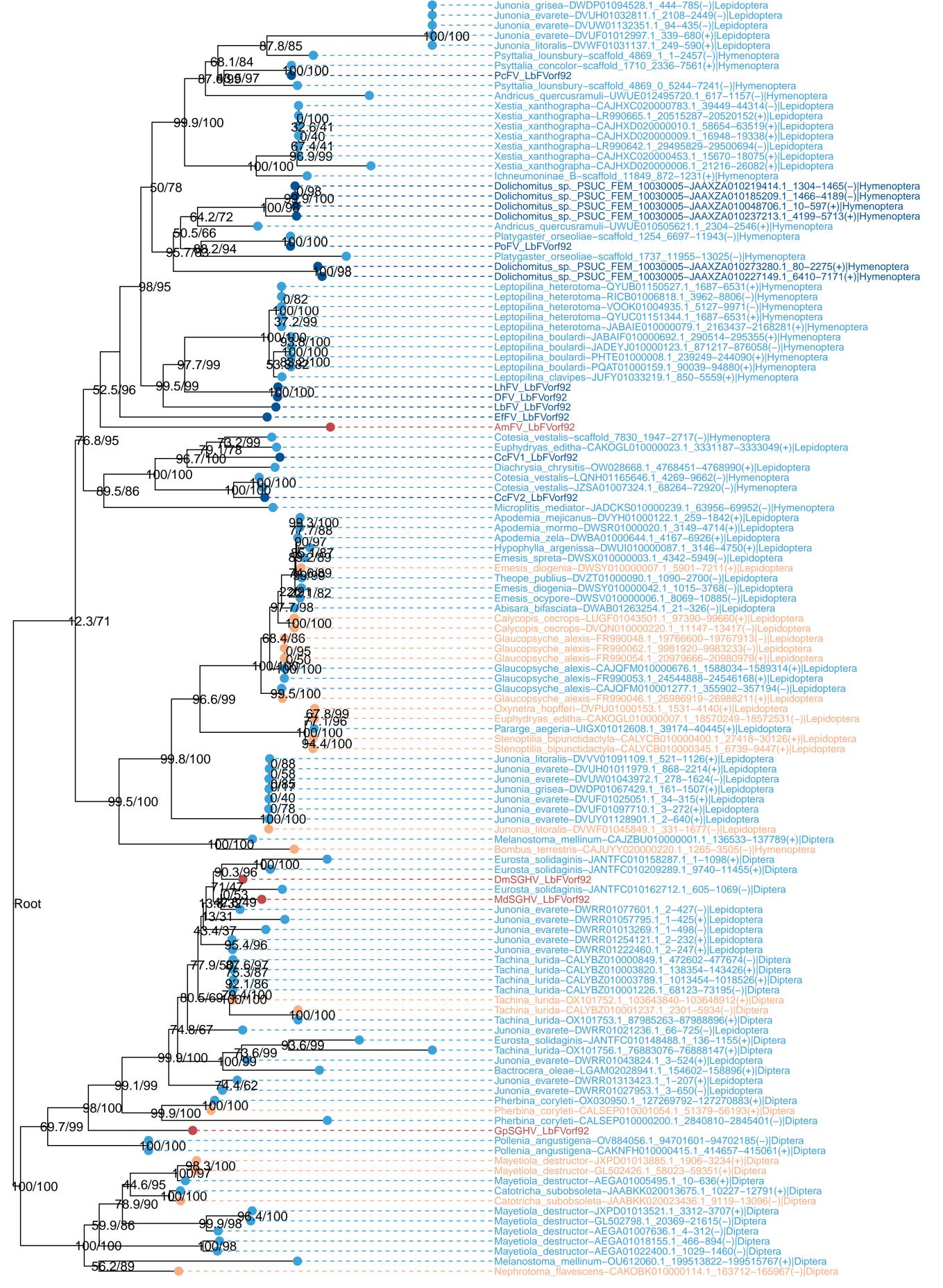
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Leptopilina_heterotoma-QYUC01124144.1_13441-13650(+)|Hymenoptera
                                                Leptopilina_heterotoma-RICB01000819.1_20578-20787(-)|Hymenoptera
                                                Leptopilina_heterotoma-JABAIE010000040.1_2949837-2950046(-)|Hymenoptera
                                                Leptopilina_heterotoma-ML720331.1_14350-14559(+)|Hymenoptera
                                    76.8/98
                                                Leptopilina_heterotoma-VOOK01000818.1_17789-17998(+)|Hymenoptera
                                    7.8/93
                                                Leptopilina_clavipes-JUFY01034461.1_86918-87136(-)|Hymenoptera
                                   8.2/99
                                                Leptopilina_boulardi-JABAIF010002654.1_35933-36142(-)|Hymenoptera
                                    0/78
                                                Leptopilina_boulardi-JADEYJ010000038.1_4332741-4332950(+)|Hymenoptera
                                   85.1/95
                                                Leptopilina_boulardi-PHTE01000002.1_937155-937364(-)|Hymenoptera
                        <del>7</del>9.9/87
                                   36.8/94
                                                Leptopilina_boulardi-PQAT01002523.1_16794-17003(+)|Hymenoptera
                                                Encarsia_formosa-scaffold_4174_21398-21706(-)|Hymenoptera
                     <del>8</del>9.9/91
                                  <del>99</del>.6/100
                                                EfFV_lef5
                                                DFV_lef5
              <del>7</del>9.2/61
                                                Catotricha_subobsoleta-JAABKK020012590.1_931-1041(+)|Diptera
                        0/83
                                                Catotricha_subobsoleta-JAABKK020059795.1_3199-3309(-)|Diptera
                       92.2/73
                                                GpSGHV_lef5
         <del>7</del>2.8/29
                                                Platygaster_orseoliae-scaffold_21913_4024-4338(+)|Hymenoptera
                                      93.1/100
                                                -PoFV_lef5
                                      95/99
                                                Platygaster_orseoliae-scaffold_19741_4917-5231(+)|Hymenoptera
                                  00/100
                                                Platygaster_orseoliae-scaffold_18363_2914-3228(+)|Hymenoptera
        <del>8</del>4.<del>7/4</del>335/33
                                                Psyttalia_concolor-scaffold_2882_8118-8486(+)|Hymenoptera
                     <del>-97</del>.2/100
                                                PcFV_lef5
            30.7/78
                                                Brenthis_ino-OV170231.1_25560155-25560325(-)|Lepidoptera
     <del>8</del>5.8/58
                                                Microplitis_mediator-JADCKS010000239.1_148592-148735(+)|Hymenoptera
         06/22
                                                Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010271322.1_2506-2628(-)|Hymenoptera
                                                Cotesia_flavipes-scaffold_1635_21694-22404(-)|Hymenoptera
              <del>9</del>8.1/98
 <del>-6</del>6.4/58
                                                CcFV1 lef5
                                                Cotesia_glomerata-Contig12364_1024-1125(-)|Hymenoptera
              $7/99
                                                Cotesia_glomerata-JAHXZJ010002983.1_247901-247999(+)|Hymenoptera
          <del>-8</del>0.9/97
54.2/33
                                                -CcFV2_lef5
         9/100
                                                Cotesia_vestalis-LQNH01165638.1_3897-5102(+)|Hymenoptera
                                                CuniNPV_lef5
                                                AcMNPV_lef5
                                                LdMNPV_lef5
Root
                                                CpV_lef5
                                                AmFV_lef5
           <del>7</del>4.9/81
                                                ToNV_lef5
                                                DhNV_lef5
                                                tom_lef5
  <del>-9</del>0.1/66
                                                OrNV_lef5
                <del>8</del>9.3/92
                                                GbNV_lef5
          <del>-</del>$2/77
                                                PmNV_lef5
    <del>-2</del>3.2/49
                                                HzNV-1 lef5
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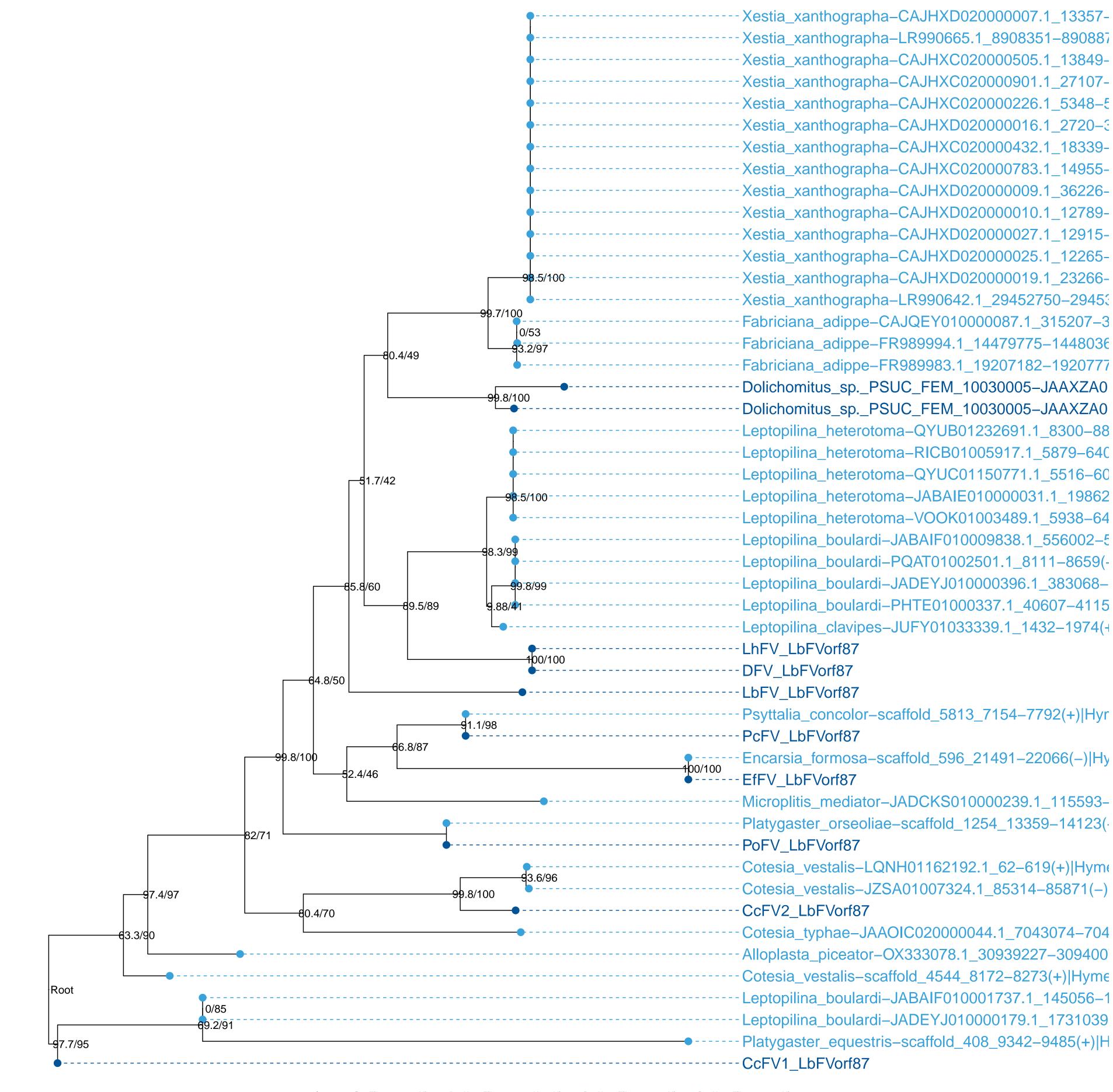


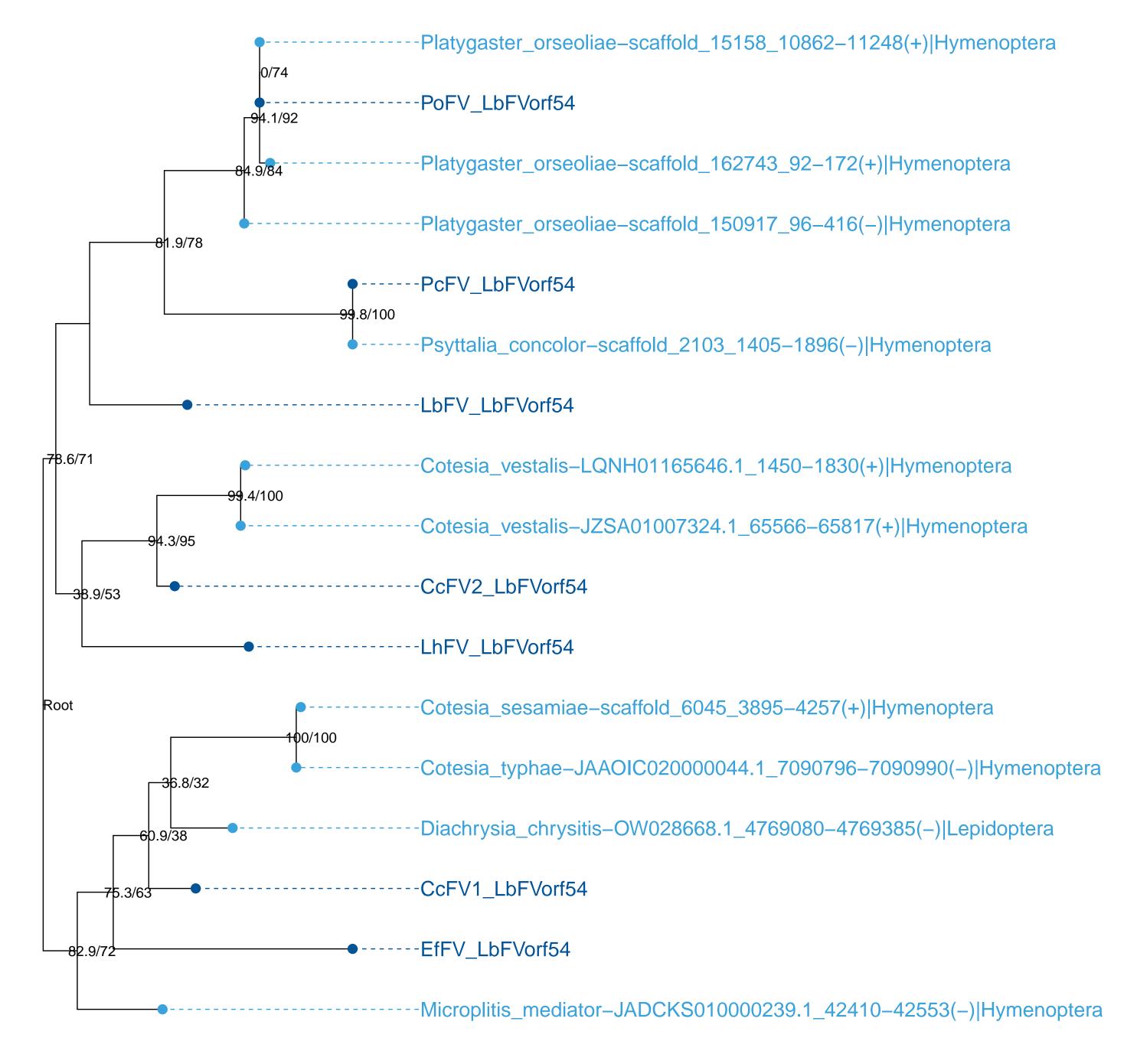


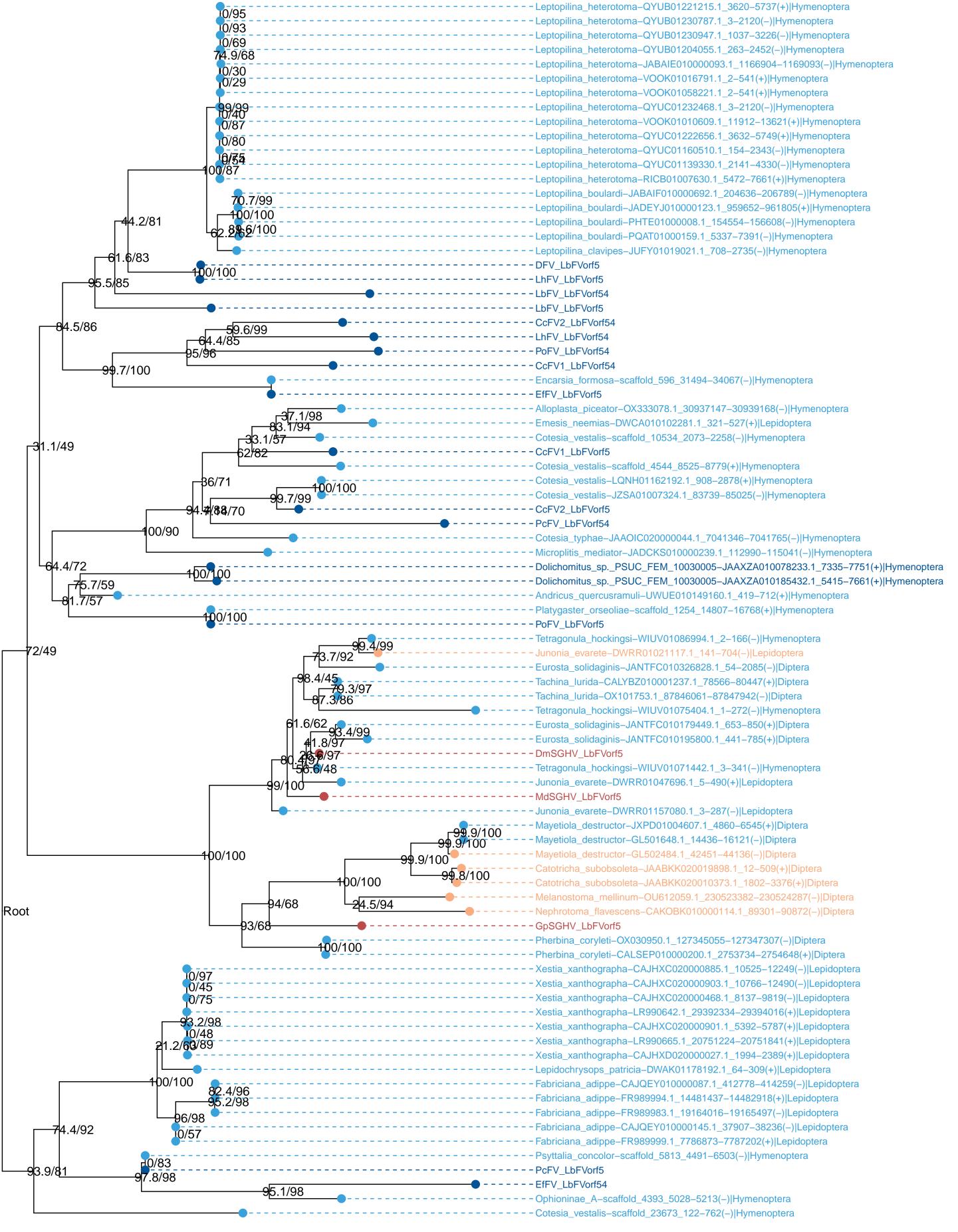
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-Xestia_xanthographa-CAJHXC020000226.1_9796-10335(-)|Lepidoptera
                                    -Xestia_xanthographa-LR990665.1_8912799-8913338(-)|Lepidoptera
                                    -Xestia_xanthographa-CAJHXC020000468.1_1987-2526(-)|Lepidoptera
                     10/78
                                    -Xestia_xanthographa-LR990642.1_29399627-29400166(+)|Lepidoptera
                     0/43
                                     Xestia_xanthographa-CAJHXC020000885.1_4653-4886(-)|Lepidoptera
                    <del>(</del>0/100
                                    -Xestia_xanthographa-CAJHXC020000901.1_11389-11622(+)|Lepidoptera
         <del>7</del>0.3/76
                                     Xestia_xanthographa-CAJHXC020000903.1_4892-5125(-)|Lepidoptera
                                     Psyttalia_concolor-scaffold_1710_34169-35197(-)|Hymenopteral
                      <del>99</del>.9/100
                                    PcFV_LbFVorf99
      <del>-1</del>00/100
                                     Platygaster_orseoliae-scaffold_2702_2253-3320(-)|Hymenoptera
                                    -PoFV_LbFVorf99
                       98.4/99
                                     Platygaster_orseoliae-scaffold_983_14655-15641(+)|Hymenoptera
                       <del>45.3/63</del>
                                     Platygaster_orseoliae-scaffold_17380_2-487(+)|Hymenoptera
                       95.2/68
     <del>.7</del>2.1<del>/73</del>
                                     Platygaster_orseoliae-scaffold_7821_14388-15077(+)|Hymenoptera
                                     Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010261437.1_94-645(-)|Hymenoptera
                      <del>7</del>1.8/93
   76/63
                                     Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010217671.1_4142-4741(+)|Hymenoptera
                                     ·Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010011009.1_5024-5491(+)|Hymenoptera
                                     Encarsia_formosa-scaffold_102_20489-21511(+)|Hymenoptera
 <del>4</del>2.1/31
                    H00/100
                                     EfFV_LbFVorf99
                                     Aphidius_colemani-scaffold_749_5313-5666(+)|Hymenoptera
         <del>9</del>1.7/90
                                     LhFV_LbFVorf99
                                     Cotesia_vestalis-LQNH01120722.1_857-943(-)|Hymenoptera
                  0/76
Root
                                     Cotesia_vestalis-JZSA01007324.1_56876-57781(-)|Hymenoptera
                   .2/98
                                     Cotesia_vestalis-LQNH01118380.1_168-911(+)|Hymenoptera
                                     CcFV2_LbFVorf99
      <del>6</del>9.1/63
                                     Catotricha_subobsoleta-JAABKK020010373.1_714-1514(+)|Diptera
 <del>-2</del>5.7/25
                                     LbFV_LbFVorf99
41.4/17
                                     Alloplasta_piceator-OX333078.1_30923664-30924455(-)|Hymenoptera
        99/99
                                     CcFV1_LbFVorf99
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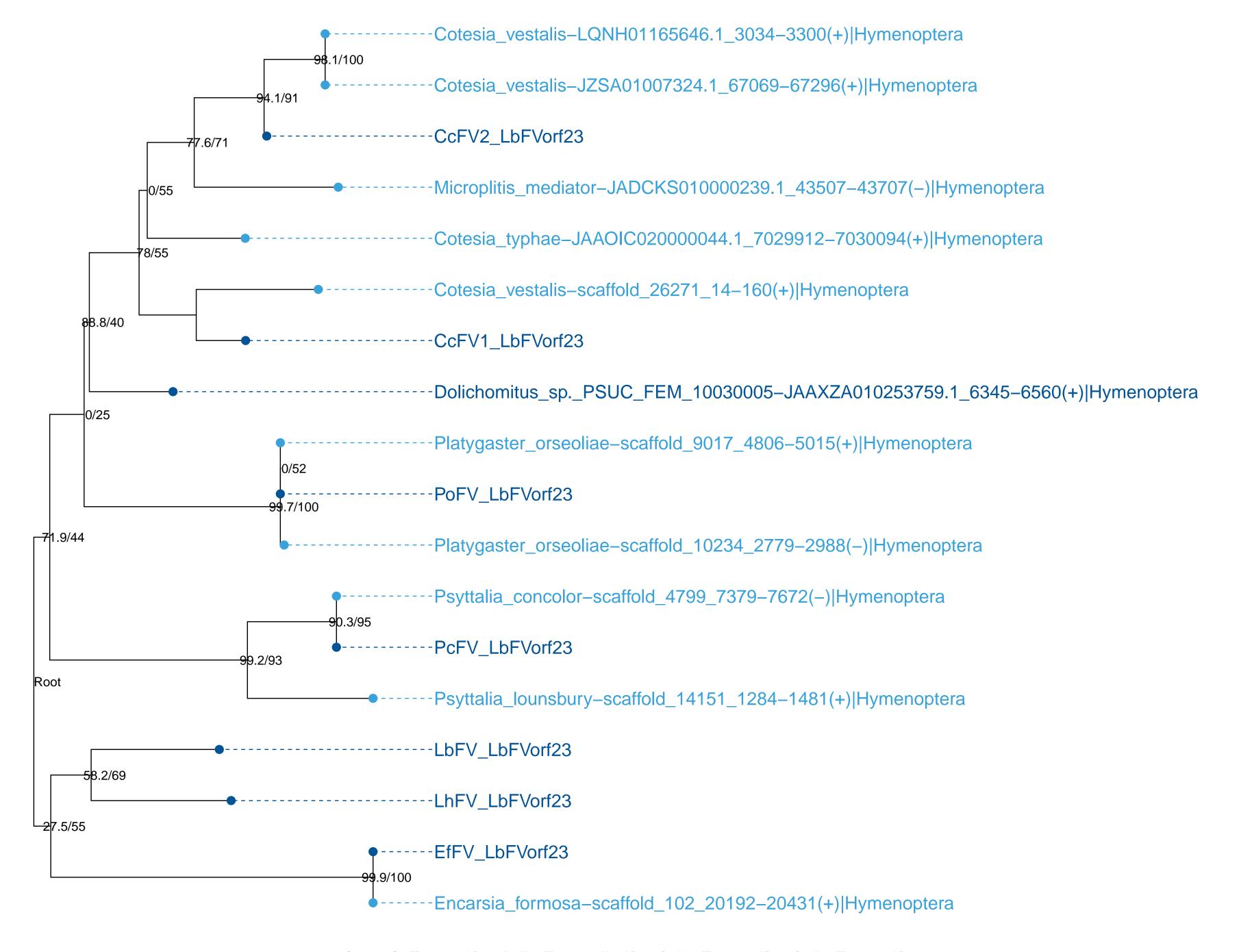
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Eristalis_tenax-CAJNIT010000326.1_6506-6865(+)|Diptera
                                         Eristalis_tenax-HG993126.1_51983462-51983821(+)|Diptera
                                         Eristalis_tenax-HG993125.1_18501979-18502338(-)|Diptera
                                         Eristalis_tenax-CAJNIT010000547.1_24219-24578(-)|Diptera
                                         Eristalis_tenax-CAJNIT010000149.1_33691-34050(+)|Diptera
                              0/25
                                         Eristalis_tenax-CAJNIT010000367.1_73526-73912(-)|Diptera
                              0/80
                                         Eristalis_tenax-HG993124.1_94073074-94073460(-)|Diptera
                              0/57
                                         Eristalis_tenax-CAJNIU020000079.1_1973543-1973902(+)|Diptera
                                         Eristalis_tenax-CAJNIT010001089.1_726262-726618(-)|Diptera
                              0/20
                                         Eristalis_tenax-CAJNIT010000007.1_1323101-1323340(-)|Diptera
                              0/82
                                         Eristalis_tenax-HG993128.1_52476663-52477022(+)|Diptera
                             99.2/100
                                         Eristalis_tenax-CAJNIT010000042.1_489521-489880(-)|Diptera
                                         Eristalis_tenax-CAJNIT010000268.1_241994-242353(+)|Diptera
                   <del>8</del>4.6/91
                                         Tachina_lurida-CALYBZ010003299.1_36134-36451(-)|Diptera
                          84.7/97
                                         Tachina_lurida-OX101755.1_63099871-63100188(-)|Diptera
                          <del>97</del>.5/100
                <del>7</del>9.7/8<del>9</del>
                                         Tachina_lurida-OX101756.1_50552305-50552622(-)|Diptera
                                         Cotesia_glomerata-JAHXZJ010001865.1_711689-712030(+)|Hymenoptera
              <del>9</del>7.1/<u>98</u>
                                         Platygaster_orseoliae-scaffold_107641_716-1024(-)|Hymenoptera
                       <del>6</del>8.5/90
                                         Alloplasta_piceator-OX333075.1_30108310-30108627(+)|Hymenoptera
                    <del>9</del>2.6/96
    <del>8</del>9.6/74
                                         Cotesia_glomerata-CM034667.1_10612087-10612419(+)|Hymenoptera
                                         Psyttalia_concolor-scaffold_1710_7639-8595(+)|Hymenoptera
               <del>9</del>9/100
                                         PcFV_LbFVorf94
PD.4/90131.7/58
                                         Psyttalia_lounsbury-scaffold_4869_0_4509-4838(-)|Hymenoptera
                                         Psyttalia_concolor-scaffold_41640_573-833(-)|Hymenoptera
                                         LbFV_LbFVorf94
                                         -Xestia_xanthographa-LR990642.1_29494879-29495409(-)|Lepidoptera
                                         -Xestia_xanthographa-CAJHXD020000009.1_101178-101708(-)|Lepidoptera
                                         Xestia_xanthographa-CAJHXD020000010.1_63939-64469(+)|Lepidoptera
                                         Xestia_xanthographa-CAJHXC020000783.1_38499-39029(-)|Lepidoptera
                                         -Xestia_xanthographa-LR990665.1_20520572-20521102(+)|Lepidoptera
                                         -Xestia_xanthographa-CAJHXC020000453.1_18486-19016(+)|Lepidoptera
                     98-1/100
                                         Xestia_xanthographa-CAJHXD020000006.1_26502-27032(+)|Lepidoptera
          <del>9</del>7.3/98
                                         Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010237213.1_6403-6918(+)|Hymenoptera
                                         Leptopilina_heterotoma-QYUB01119065.1_2536-3129(+)|Hymenoptera
                                         Leptopilina heterotoma-VOOK01009551.1 3505-4098(-)|Hymenoptera
 <del>/4</del>2.5/34
                                         Leptopilina_heterotoma-QYUC01166318.1_2787-3380(-)|Hymenoptera
                         0/86
                                         Leptopilina_heterotoma-JABAIE010000162.1_376354-376947(+)|Hymenoptera
                        <del>7</del>9.4/98
                                         Leptopilina_heterotoma-RICB01011935.1_2231-2824(-)|Hymenoptera
                                         Leptopilina_clavipes-JUFY01021066.1_2284-2790(-)|Hymenoptera
        4.8/92
                                         DFV LbFVorf94
                   9<del>9</del>.3/100
                                         LhFV LbFVorf94
<del>8</del>β.6/53
                                         Cotesia_vestalis-LQNH01165646.1_3327-4145(-)|Hymenoptera
                               <del>9</del>8/100
                                         Cotesia_vestalis-JZSA01007324.1_67323-68141(-)|Hymenoptera
                                         CcFV2_LbFVorf94
             <del>-4</del>0.9/68
                                         CcFV1_LbFVorf94
                                         Cotesia_vestalis-scaffold_26271_192-653(-)|Hymenoptera
  <del>6</del>2.3/49
                                         Platygaster_orseoliae-scaffold_1254_5586-6605(-)|Hymenoptera
                  <del>9</del>7.1/99
                                         PoFV_LbFVorf94
          <del>9</del>5.3/96
                                         Ophioninae_B-scaffold_15788_1435-1992(+)|Hymenoptera
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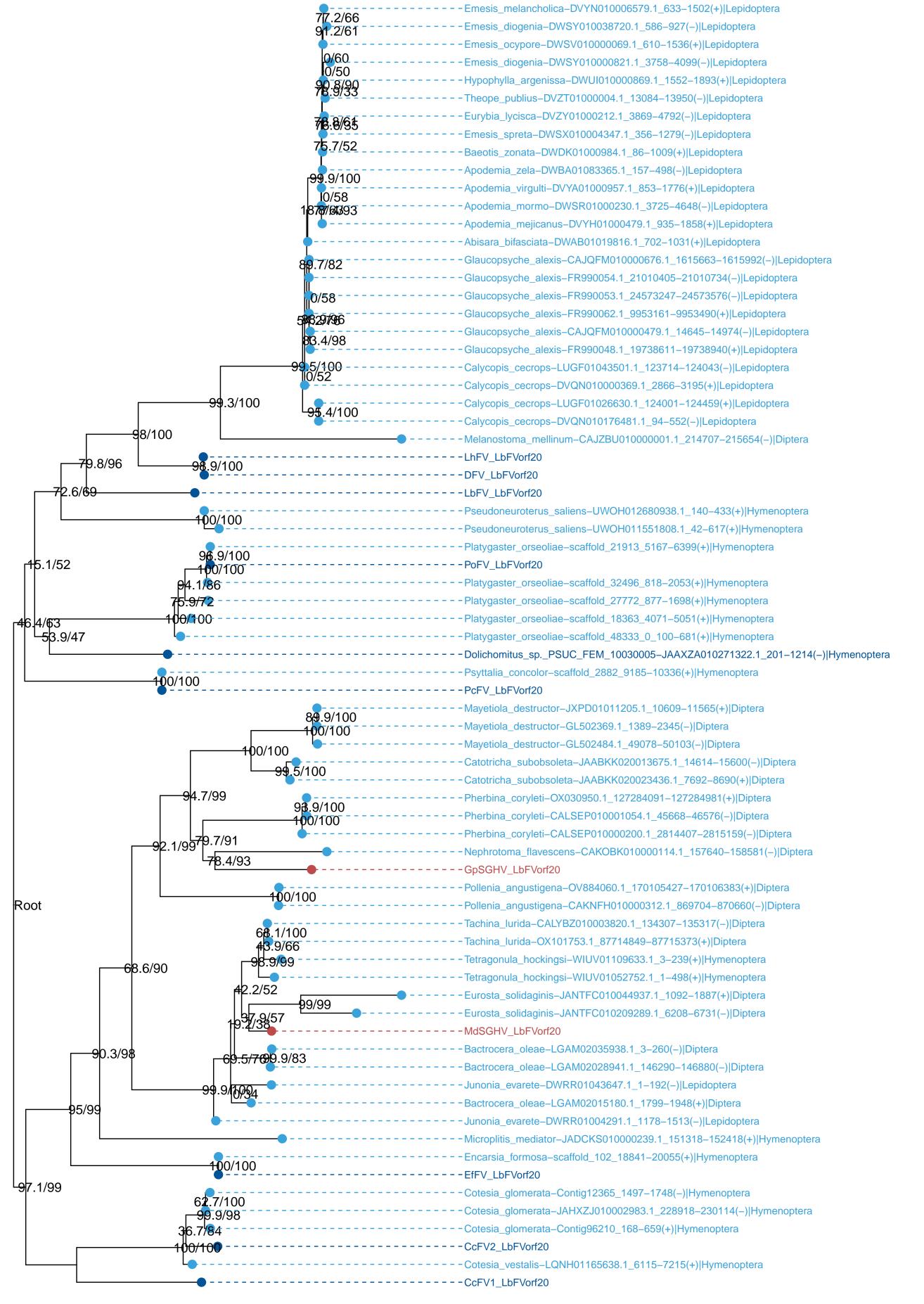


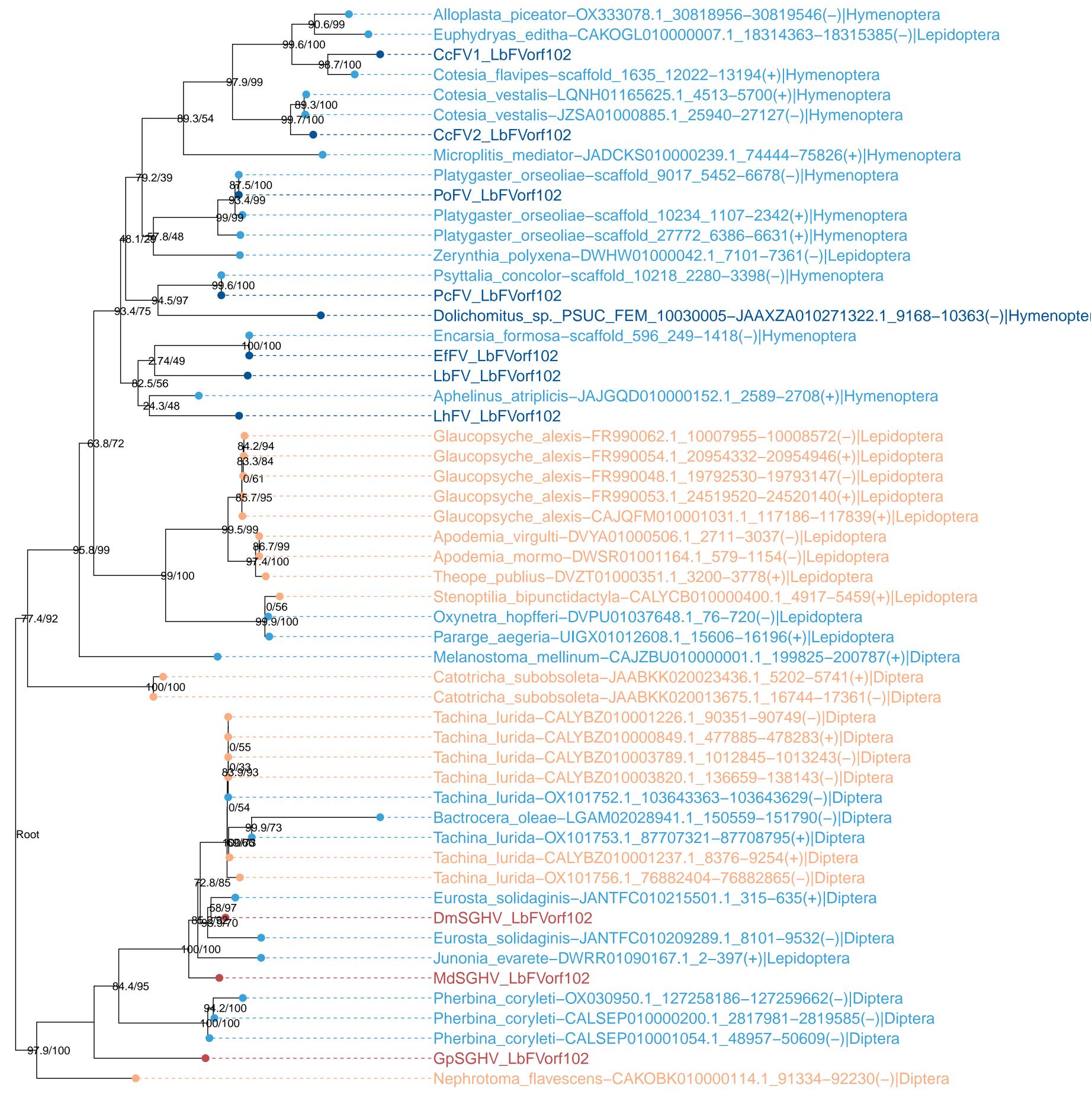


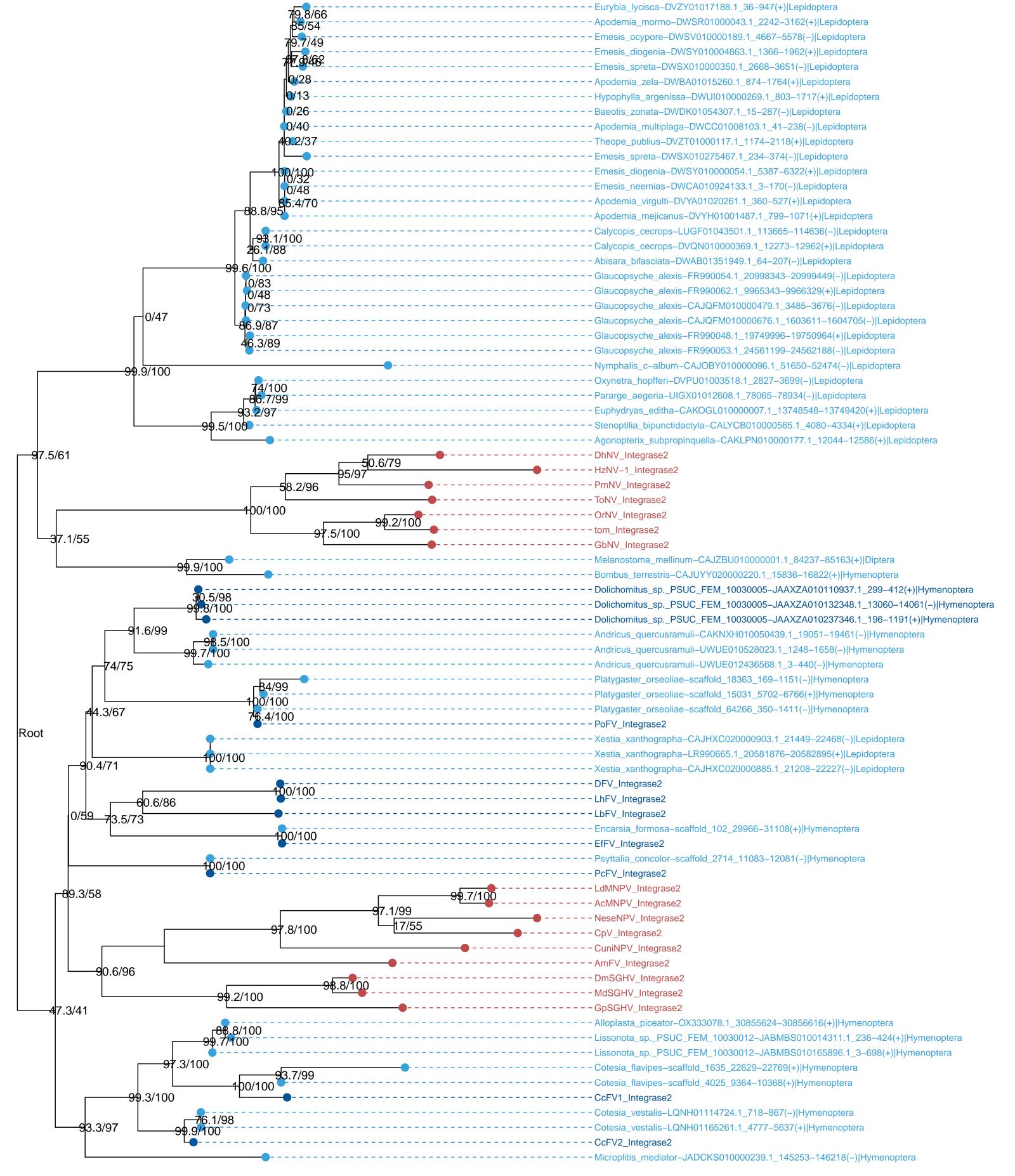












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Baeotis_zonata-DWDK01000220.1_488-1924(+)|Lepidoptera
                                                       85.6/59
                                                                                           lypophylla_argenissa-DWUI010000029.1_3546-4985(+)|Lepidoptera
                                                       31.7/52
                                                                                          Emesis_diogenia-DWSY010000037.1_3124-4536(-)|Lepidoptera
                                                        86.7/64
                                                                                         Emesis_ocypore-DWSV010000064.1_3522-5012(+)|Lepidoptera
                                                        6.2/60
                                                                                         Apodemia_zela-DWBA01020154.1_2746-4185(-)|Lepidoptera
                                                         5/100
                                                                                         Apodemia_mormo-DWSR01000005.1_4471-5907(+)|Lepidoptera
                                                      <del>99</del>8151/90
                                                                                         Emesis_spreta-DWSX010000351.1_166-1290(+)|Lepidoptera
                                                                                          Theope_publius-DVZT01000112.1_2650-4104(-)|Lepidoptera
                                                  <del>1</del>00/100
                                                                                         Glaucopsyche_alexis-FR990062.1_10044893-10046473(+)|Lepidoptera
                                                   9<mark>9</mark>.8/100
69.5/97
                                                                                          Glaucopsyche_alexis-FR990048.1_19831347-19832933(+)|Lepidoptera
                                  <del>99</del>.8/100
                                                                                          Calycopis_cecrops-LUGF01043501.1_28244-30851(+)|Lepidoptera
                                                                                           tenoptilia_bipunctidactyla-CALYCB010000400.1_8111-9730(+)|Lepidoptera
                                             99.7/100
                                                                                                      subpropinquella-CAKLPN010000177.1_26850-28412(+)|Lepidoptera
                      <del>9</del>7.5/94
                                                                                                  litoralis-DVVV01018246.1_1222-2757(-)|Lepidoptera
                                                                    10/52
                                                                                                  _evarete-DVUH01101187.1_312-962(-)|Lepidoptera
                                                                    10/87
                                                                                                       te-DVUY01009462.1_1125-1775(-)|Lepidoptera
                                                                   <del>1</del>00/100
                                                                                            nonia_evarete-DVUF01000040.1_305-1840(-)|Lepidoptera
                                                                    10/96
                                                <del>1</del>00/100
                                                                                           unonia_grisea-DWDP01040843.1_35-1570(-)|Lepidoptera
             9<del>9</del>.8/100
                                                                                          Nymphalis_c-album-CAJOBY010000096.1_18332-19933(+)|Lepidoptera
                                                                                         -PmNV_helicase
                                           89.7/100
                                                                                         -DhNV_helicase
                                   <del>-87</del>.3/<del>100</del>
                                                                                         -HzNV-1_helicase
                                                                                          ToNV_helicase
             6<mark>81.6/90</mark>
                         <del>-98</del>.9/100
                                                                                         OrNV_helicase
                                                              <del>1</del>00/100
                                       <del>99</del>.7/100
                                                                                          tom_helicase
                                                                                         GbNV_helicase
  <del>- 9</del>$.7/100
                                                                                          DmSGHV_helicase
                                                      <del>1</del>00/100
                                                                                         MdSGHV_helicase
                                <del>1</del>00/100
                                                                                          GpSGHV_helicase
                                                                                          Encarsia_formosa-scaffold_102_1545-3989(-)|Hymenoptera
                                        <del>1</del>00/100
                                                                                         EfFV_helicase
                                                                                          Leptopilina_heterotoma-QYUB01229288.1_1790-3748(+)|Hymenoptera
                                                                                          _eptopilina_heterotoma-VOOK01000415.1_5162-7120(+)|Hymenoptera
                                                                                          _eptopilina_heterotoma-QYUB01229289.1_4695-6653(-)|Hymenoptera
63.5/70
                                0/64
                                                                                          .eptopilina_heterotoma-QYUB01178427.1_2108-4066(+)|Hymenoptera
                                                                                           .eptopilina_heterotoma-QYUC01231064.1_4695-6653(-)|Hymenoptera
                             199.1/100
                                                                                           .eptopilina_heterotoma-JABAIE010000115.1_1014987-1016945(-)|Hymenoptera
                             95.1/100
                                                                                          eptopilina_heterotoma-RICB01006140.1_5555-7513(-)|Hymenoptera
                            00/10/92
                                                                                          eptopilina_boulardi-JABAIF010000692.1_351468-353384(+)|Hymenoptera
                                                                                          _eptopilina_boulardi-JADEYJ010000123.1_813188-815104(-)|Hymenoptera
                              <del>10</del>0/100
                                                                                          Leptopilina_boulardi-PHTE01000008.1_300136-302052(+)|Hymenoptera
                            54.65<sub>8</sub>1/98
          <del>-8</del>7.9/95
                                                                                          Leptopilina_boulardi-PQAT01000159.1_150931-152847(+)|Hymenoptera
                                                                                          _eptopilina_clavipes-JUFY01033783.1_5073-7034(+)|Hymenoptera
       <del>-9</del>9.4/97
                                                                                          _hFV_helicase
                                                                                          _bFV_helicase
                                                                                           cotesia_sesamiae-scaffold_915_35835-37523(-)|Hymenoptera
                                                69.1/97
100/100
                                                                                          Cotesia_typhae-JAAOIC020000016.1_2058823-2060514(+)|Hymenoptera
                                              28.2/89
                                                                                          Cotesia_chilonis-RJVT01000058.1_210424-212118(+)|Hymenoptera
                                                                                         Cotesia_vestalis-LQNH01159677.1_415-2283(+)|Hymenoptera
                                             984255/§00
 Root
                                   <del>1</del>00/100
                                                                                          Cotesia_vestalis-scaffold_4924_273-2245(-)|Hymenoptera
                                                                                           icroplitis_mediator-JADCKS010000239.1_31700-33542(-)|Hymenoptera
         <del>2</del>8.2/52
                                       <del>9</del>9/100
                                                                                            estia_xanthographa-CAJHXC020000468.1_14750-16438(-)|Lepidoptera
                                                                                           estia_xanthographa-LR990642.1_29385715-29387403(+)|Lepidoptera
                    90.2/92
                                                                                           epidochrysops_patricia-DWAK01015285.1_223-2233(-)|Lepidoptera
       <del>-9</del>4.3/54
                                          <del>-99</del>.9/100
                                                                                           cotesia_flavipes-scaffold_39108_7-177(-)|Hymenoptera
                               <del>1</del>00/100
                                                                                          Cotesia_flavipes-scaffold_4025_7255-9174(+)|Hymenoptera
                     99.7/100
                                                                                          CcFV1_helicase
                                                                                          Alloplasta_piceator-OX333078.1_30840603-30842564(-)|Hymenoptera
  80.5/3496.5/98
                                                                                          Cotesia_vestalis-LQNH01165261.1_2469-4475(+)|Hymenoptera
                               <del>1</del>00/100
                                                                                          CcFV2_helicase
                                                                                          Psyttalia_concolor-scaffold_7960_3805-5856(-)|Hymenoptera
                              <del>1</del>00/100
                                                                                          Campoletis_sonorensis-scaffold_7_1399746-1401452(+)|Hymenoptera
                                                     <del>10</del>0/100
                                                                                           ampoletis_sonorensis-JACEOJ010000071.1_1399746-1401452(+)|Hymenoptera
                                -61/96
 47.9/38
                                                                                          Hyposoter_didymator-scaffold516_len381733_cov83_31176-32891(-)|Hymenoptera
                              00/<u>100</u>
                                                                                           enturia_canescens-CM033505.1_10709154-10710725(+)|Hymenoptera'
                                <del>6</del>2.2/98
               <del>99</del>.8/100
                                                                                           Ousona_sp._PSUC_FEM_10030013-JABSMR010018361.1_1709-3232(+)|Hymenoptera
     <del>-8</del>6.8/73
                                                                                          Zerynthia_polyxena-DWHW01000042.1_2808-4712(-)|Lepidoptera
                                                                                          Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010000438.1_203-1009(+)|Hymenoptera
                       <del>1</del>00/100
                                                                                          Dolichomitus_sp._PSUC_FEM_10030005-JAAXZA010132348.1_5925-8192(+)|Hymenoptera
                                                                                           latygaster_orseoliae-scaffold_21671_1945-4236(+)|Hymenoptera
                               10/89
   <sup>18</sup>5.6/59
                                                                                          PoFV_helicase
                                \frac{10}{37}
                                                                                          Platygaster_orseoliae-scaffold_241835_313-408(-)|Hymenoptera
                              <del>4</del>6.3/73
                                                                                          Platygaster_orseoliae-scaffold_242276_269-406(-)|Hymenoptera
                            9339/57/60
                                                                                          Platygaster_orseoliae-scaffold_360350_3-236(-)|Hymenoptera
                                                                                         Platygaster_orseoliae-scaffold_33452_1_44-865(-)|Hymenoptera
                                                                                         Platygaster_orseoliae-scaffold_20193_1-1754(-)|Hymenoptera
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65.1/51|

| 1|5.9/62

64.6/94

