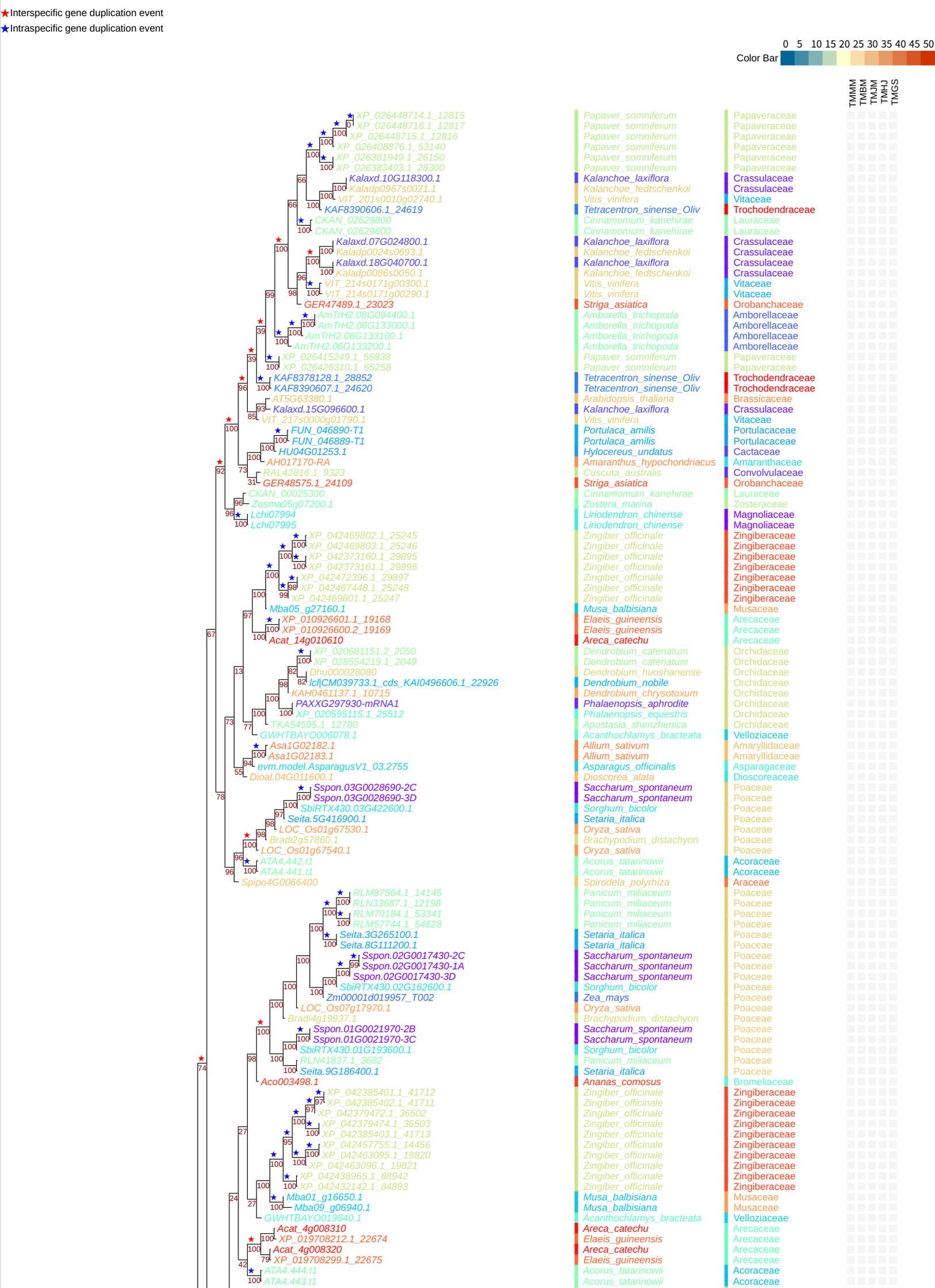
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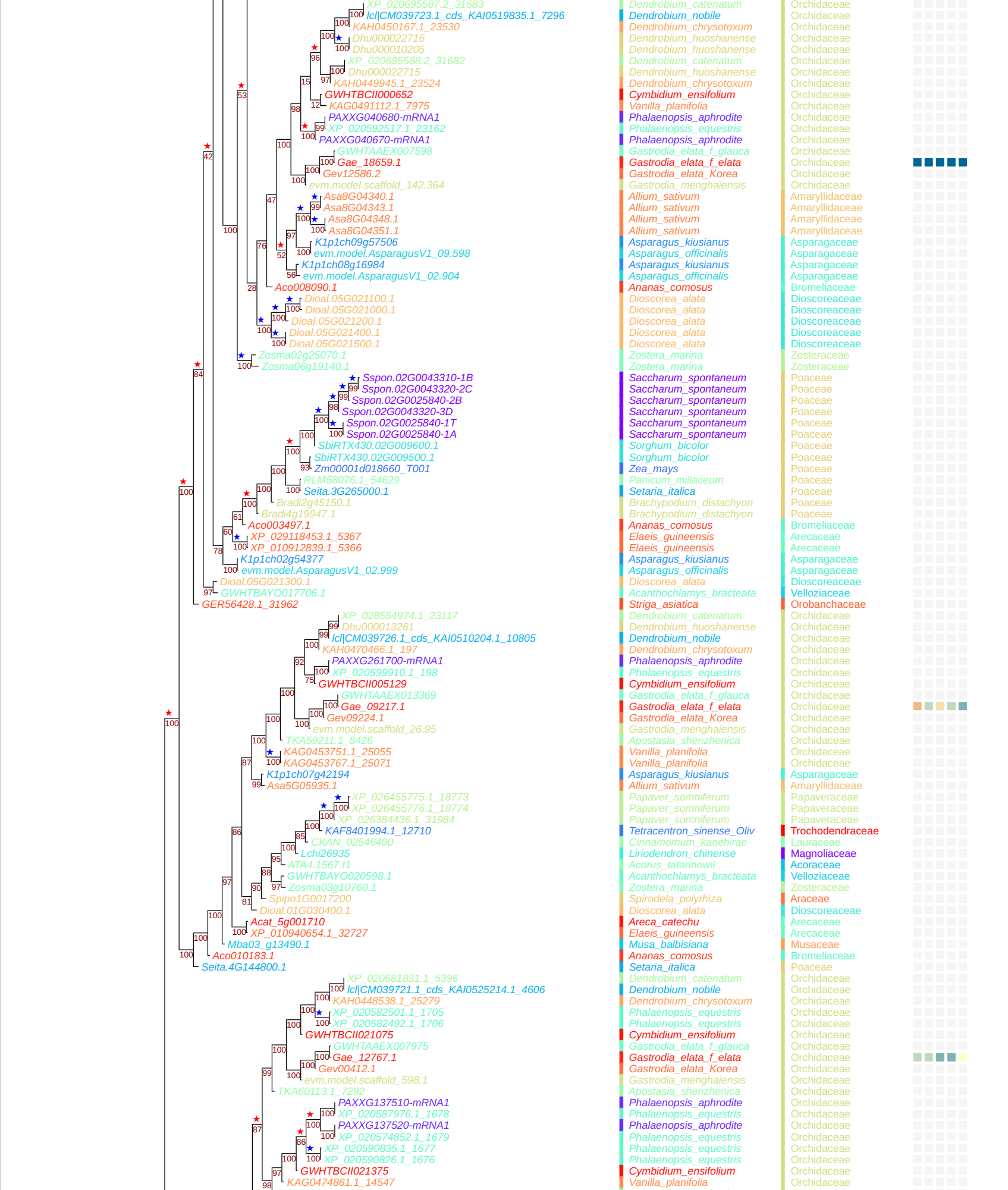
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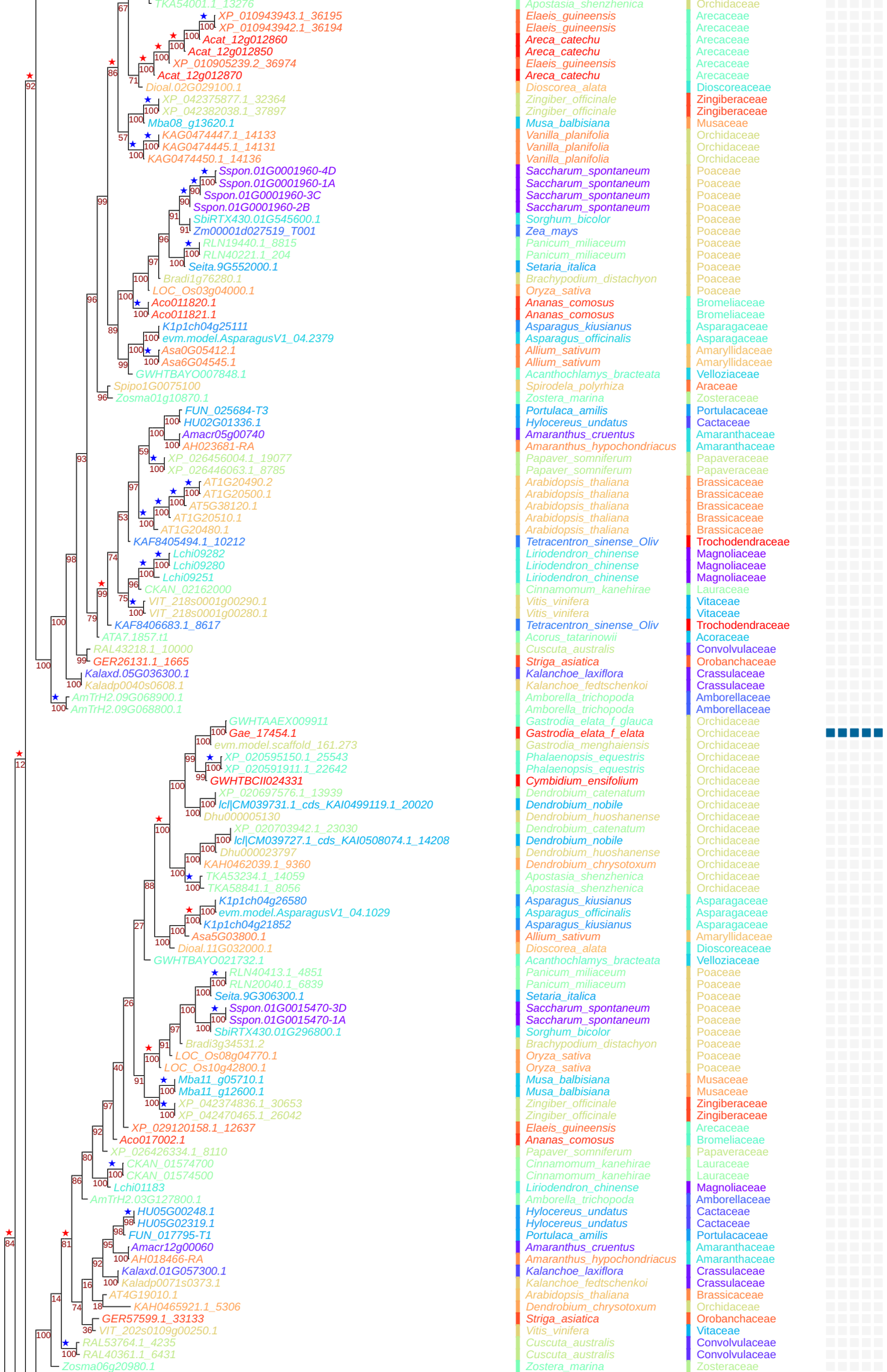
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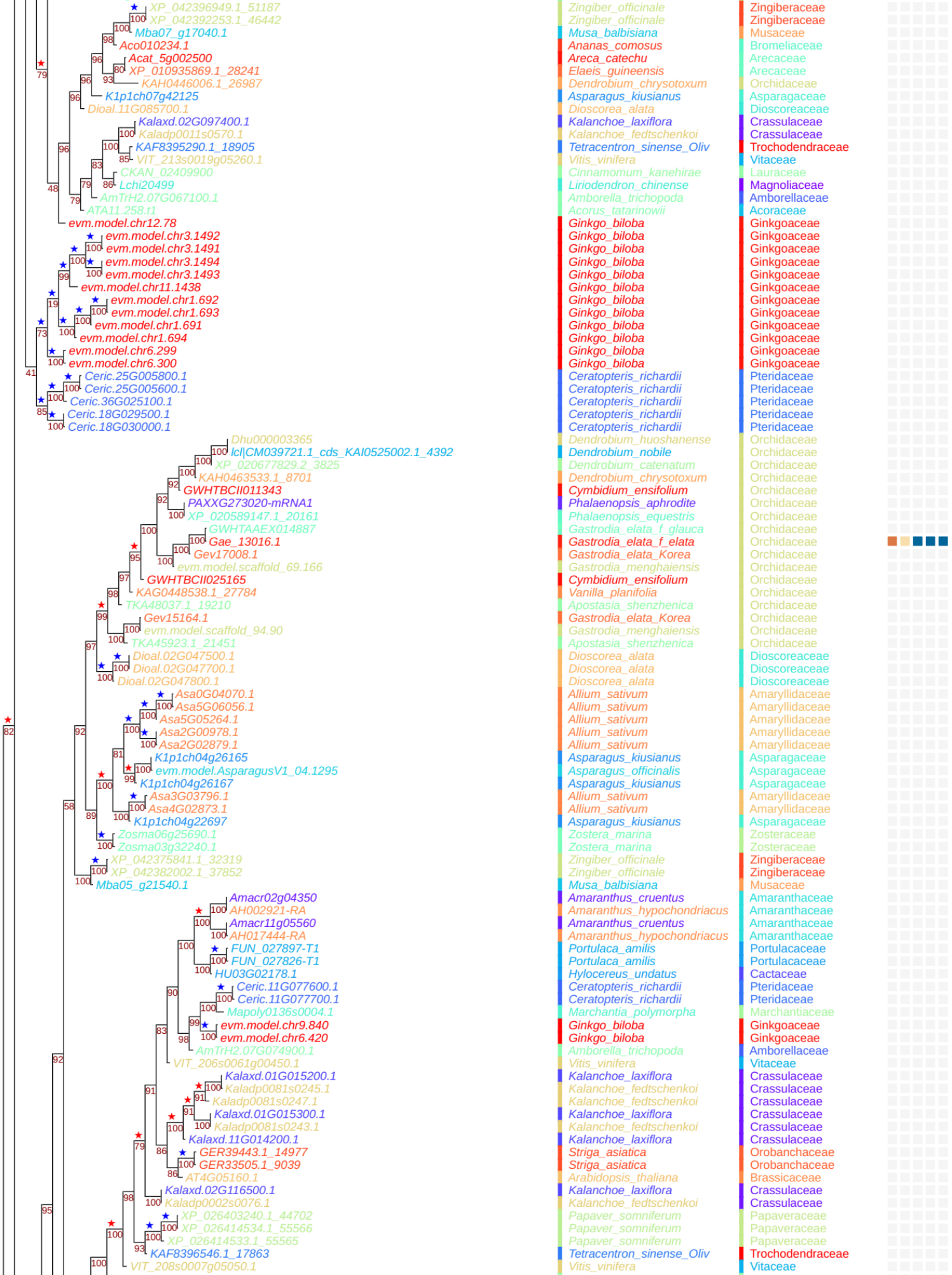
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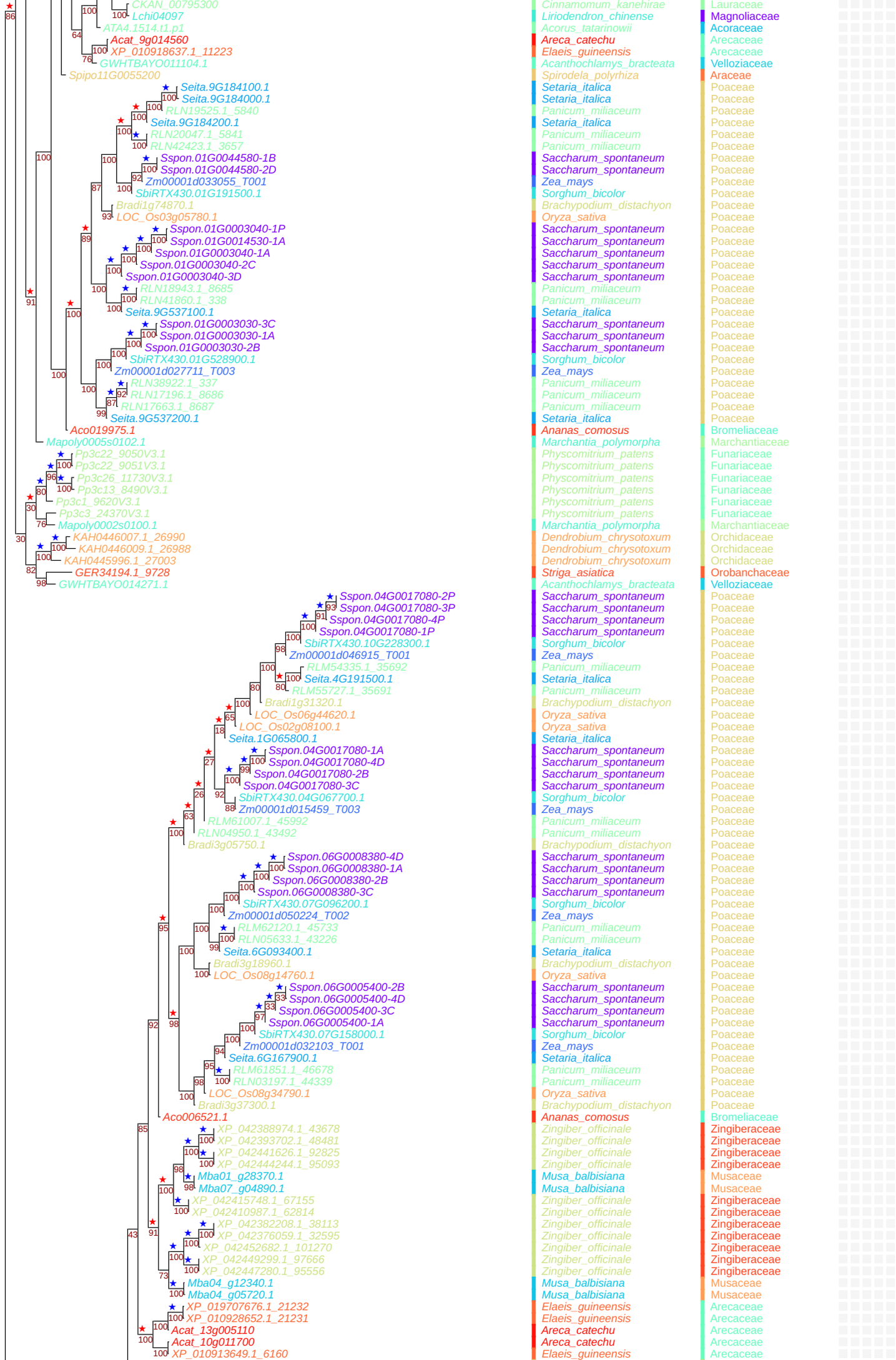
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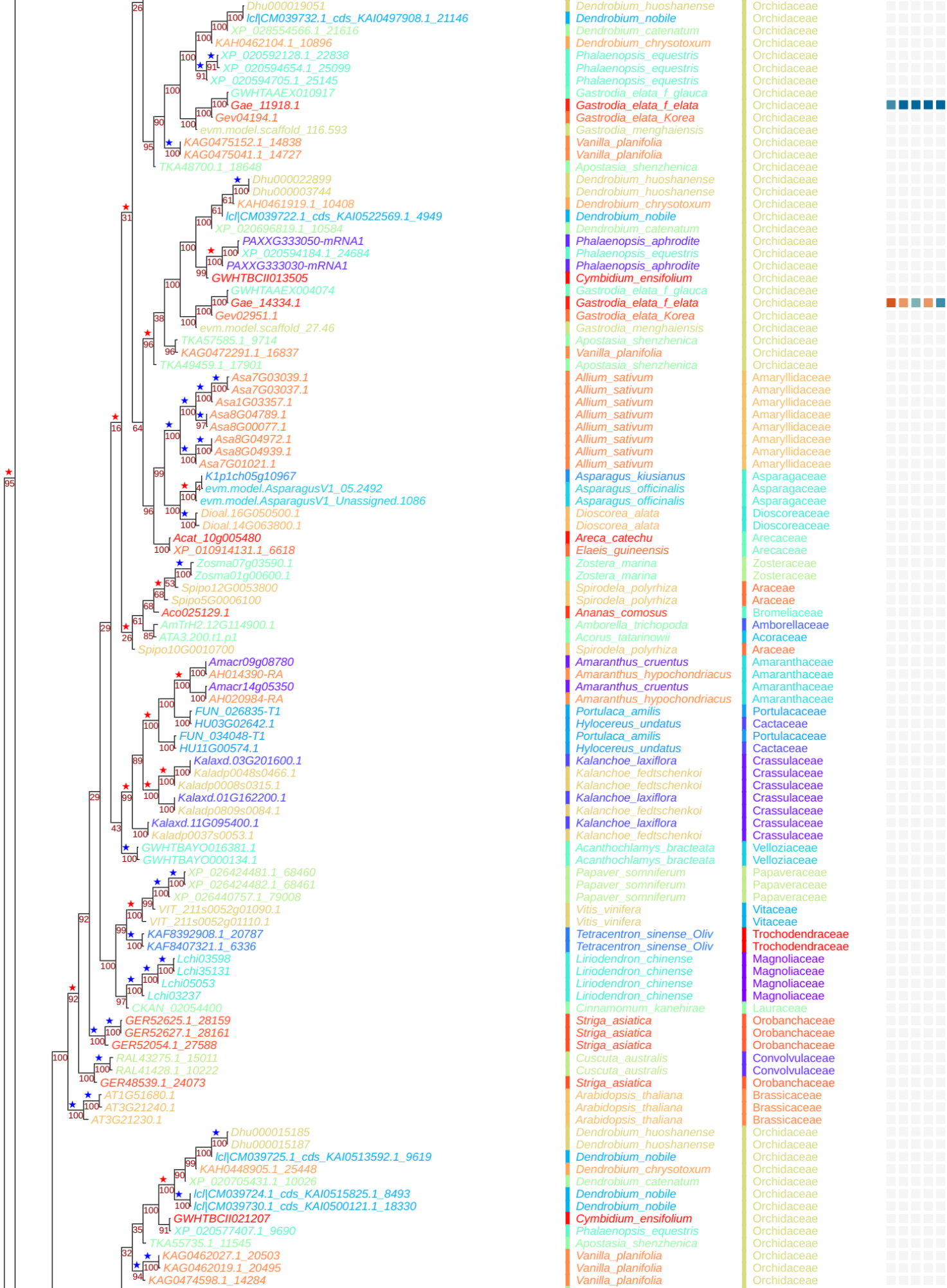
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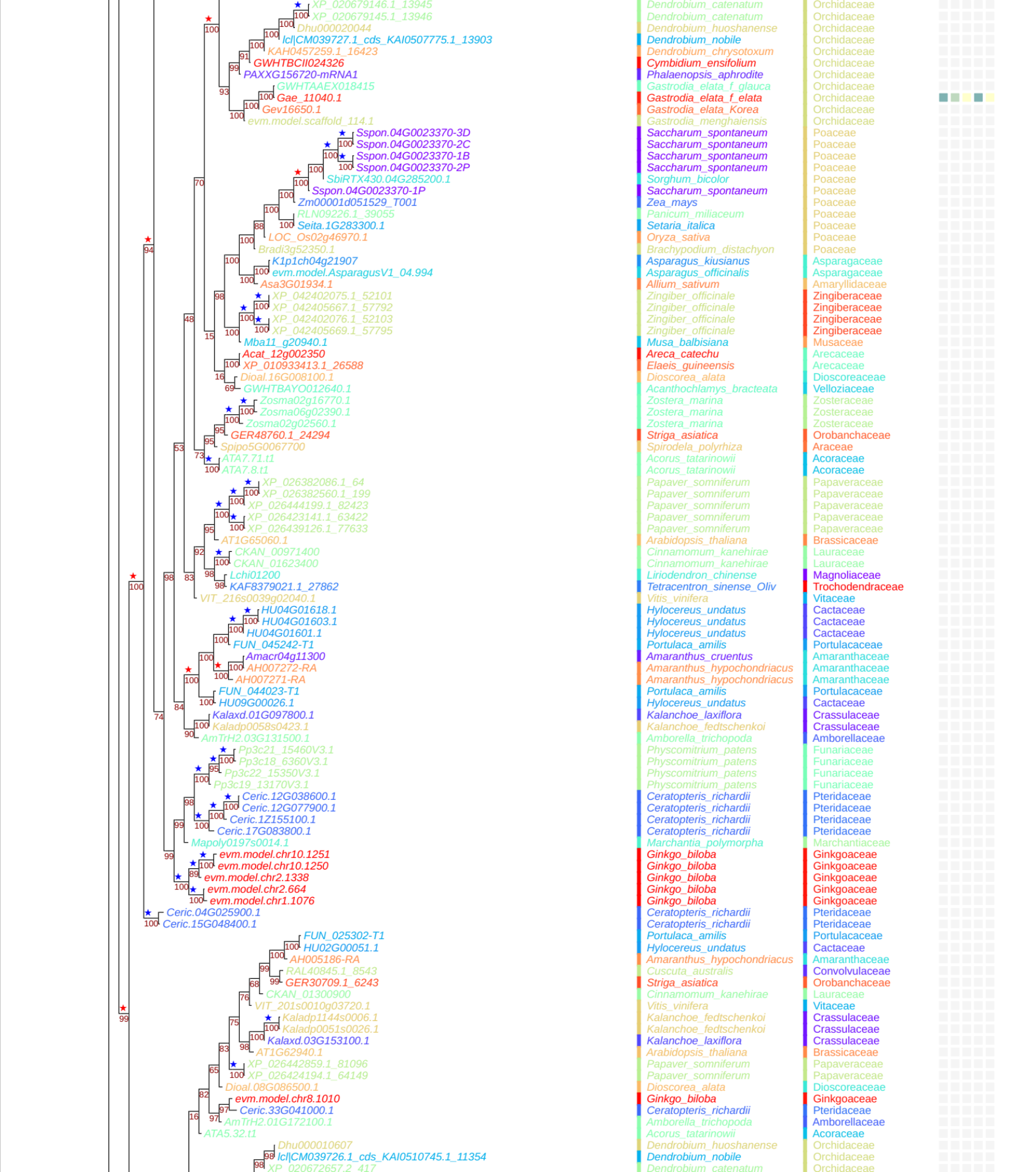
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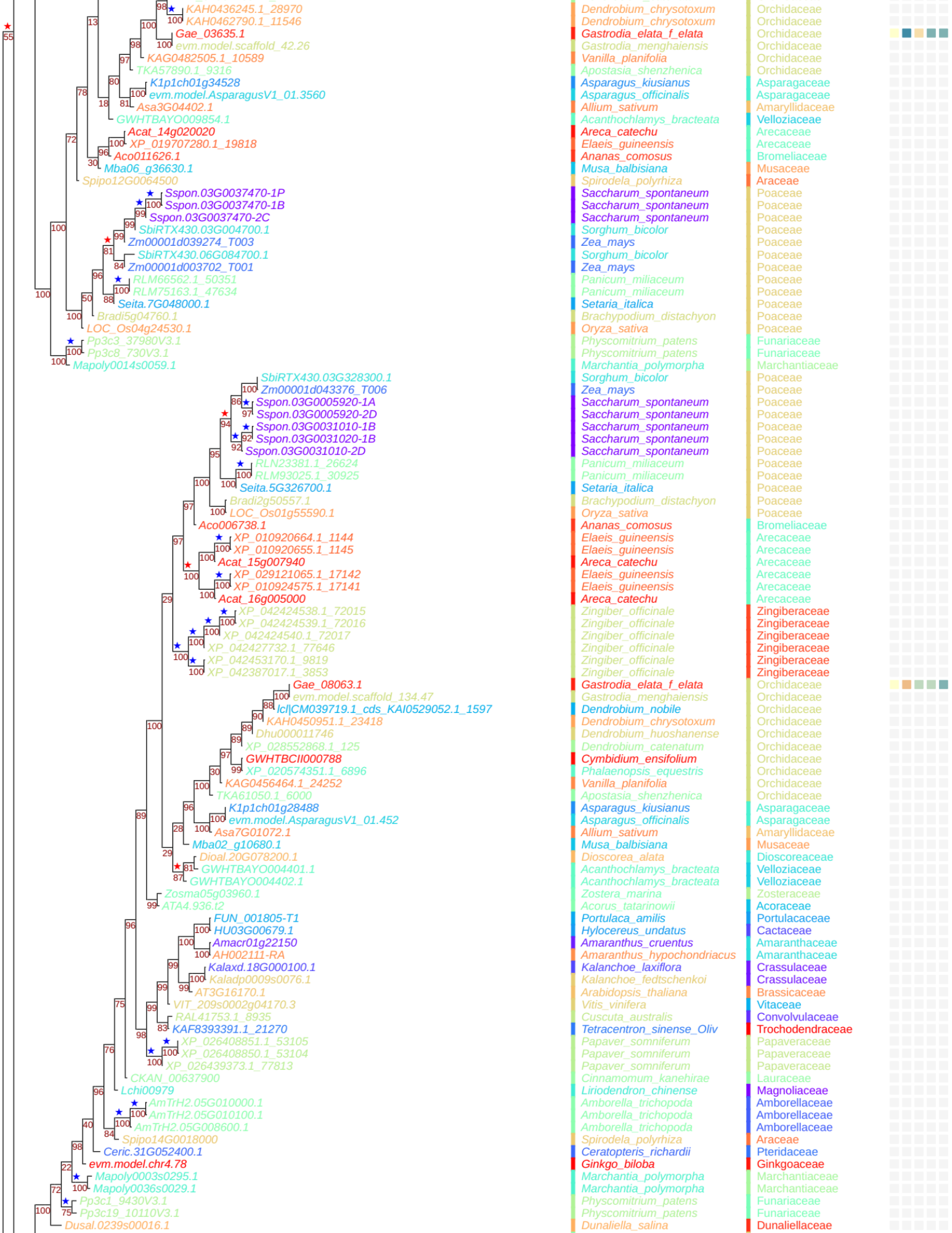
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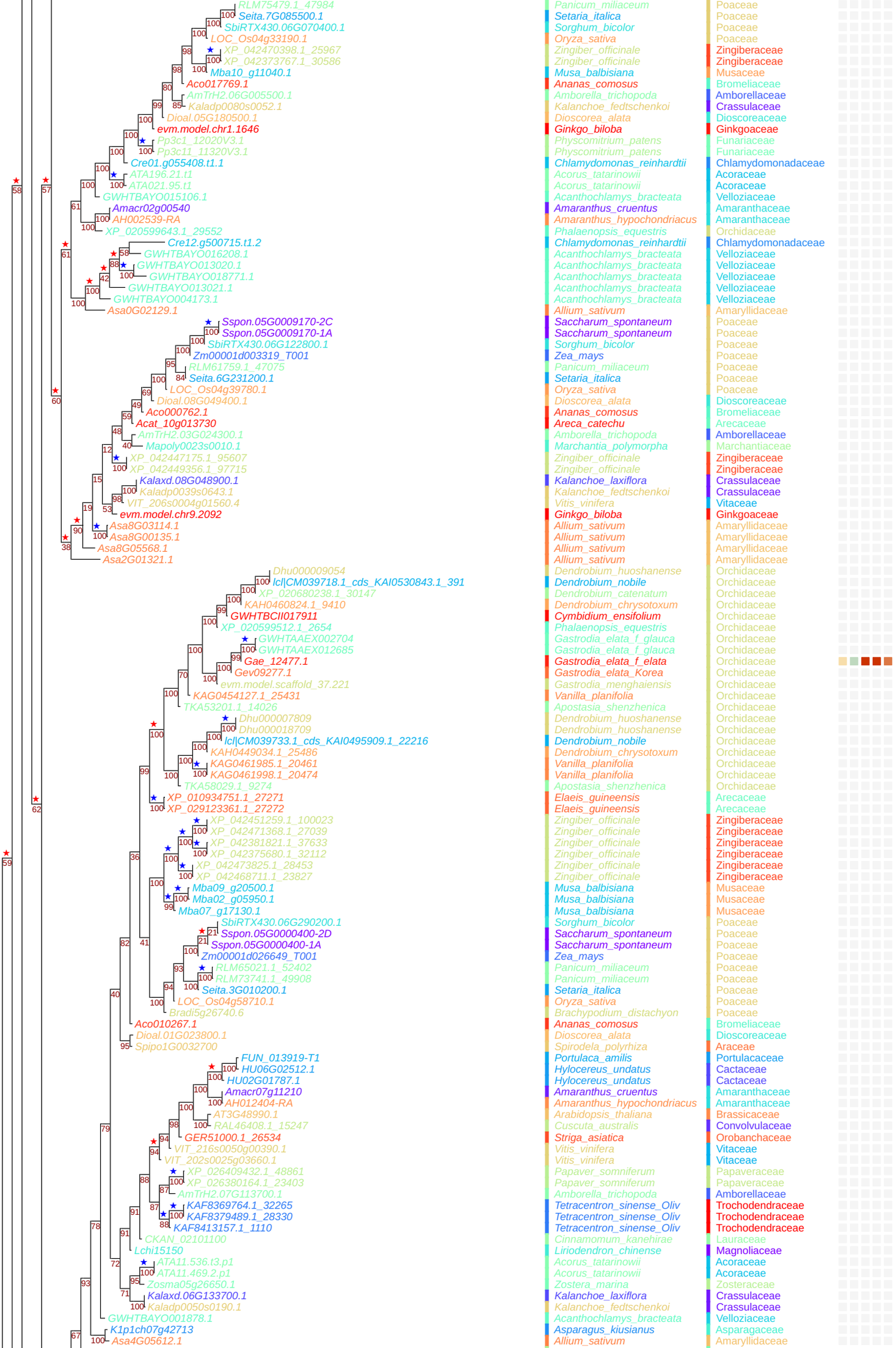
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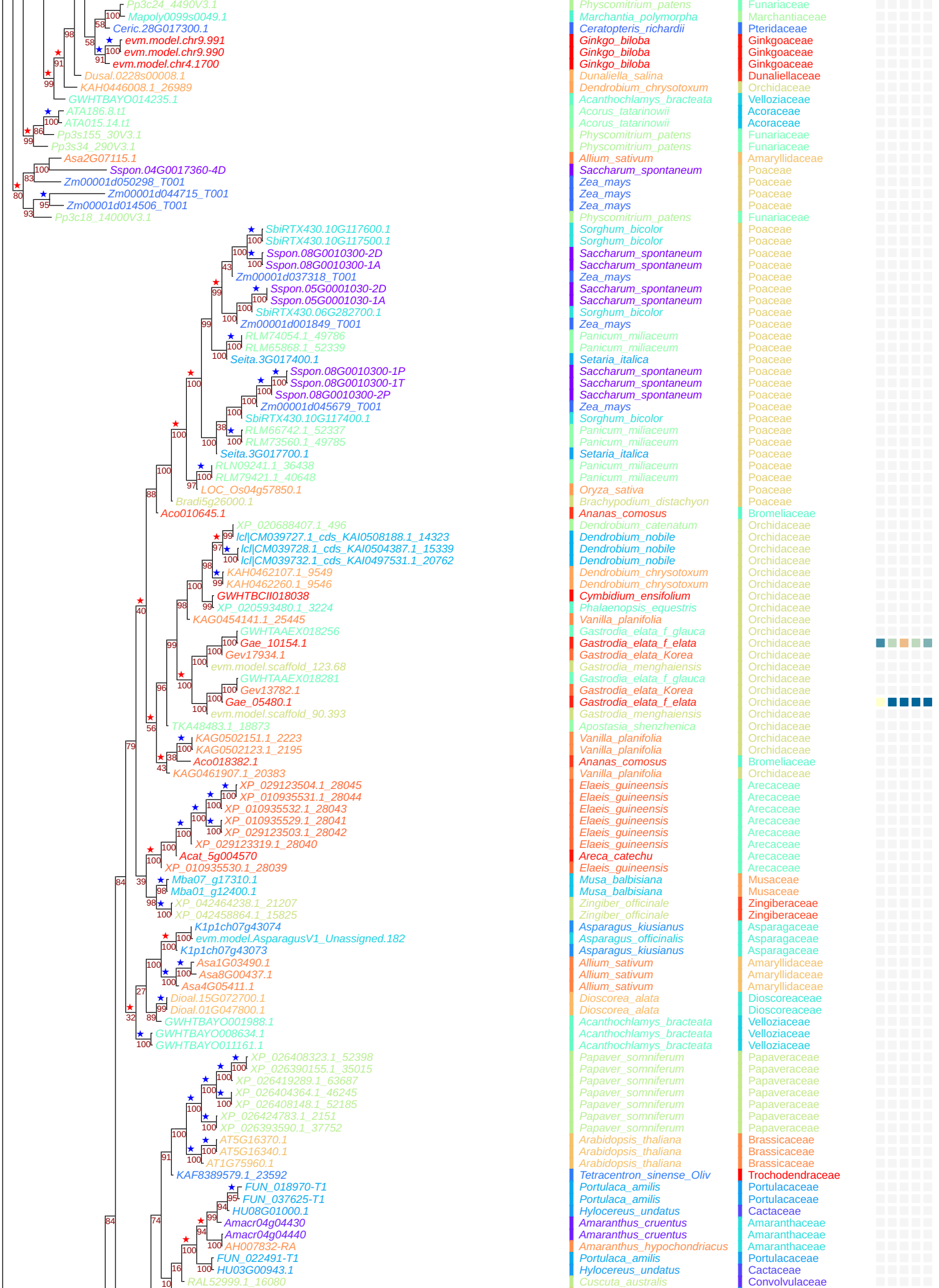
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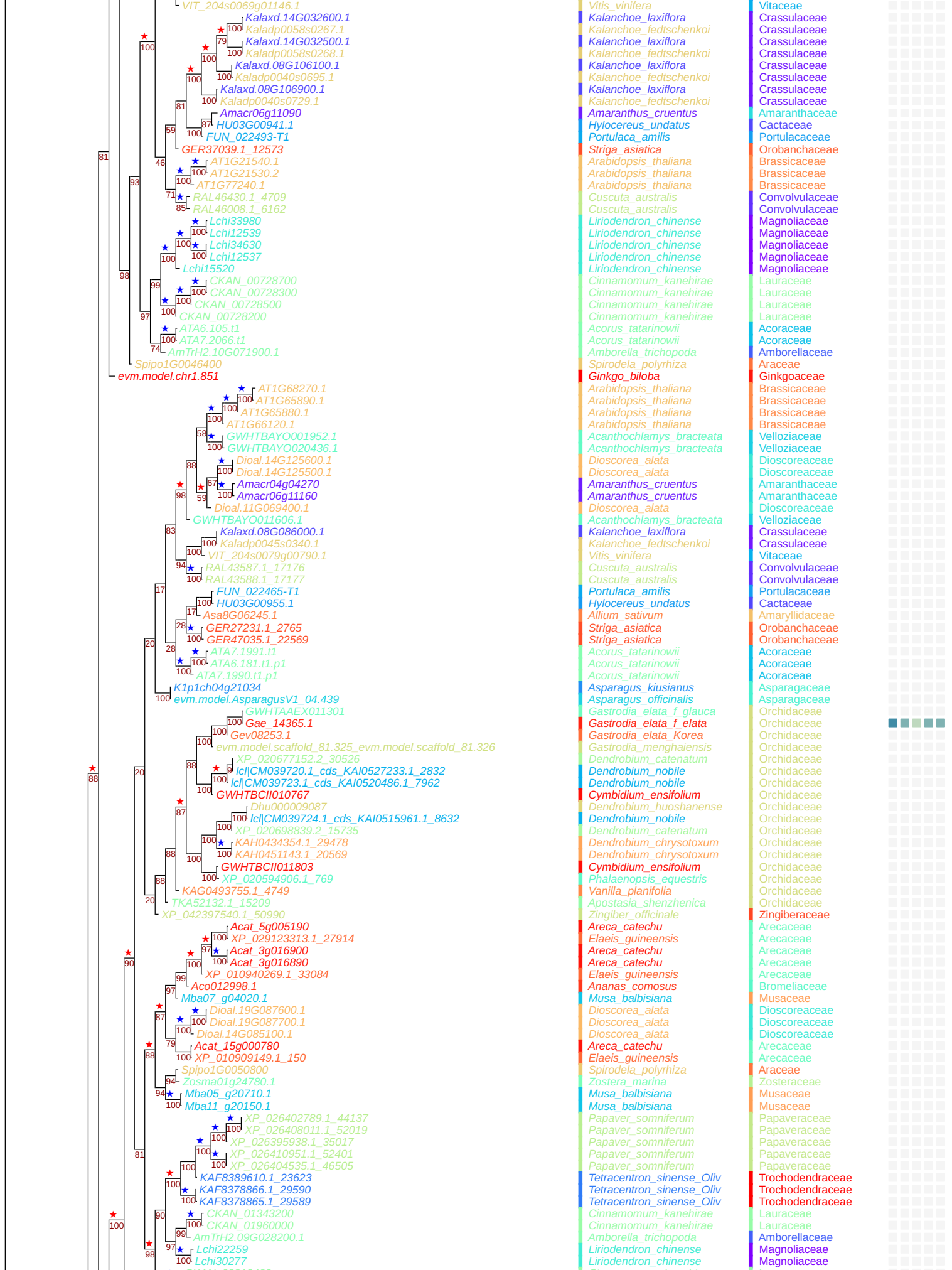
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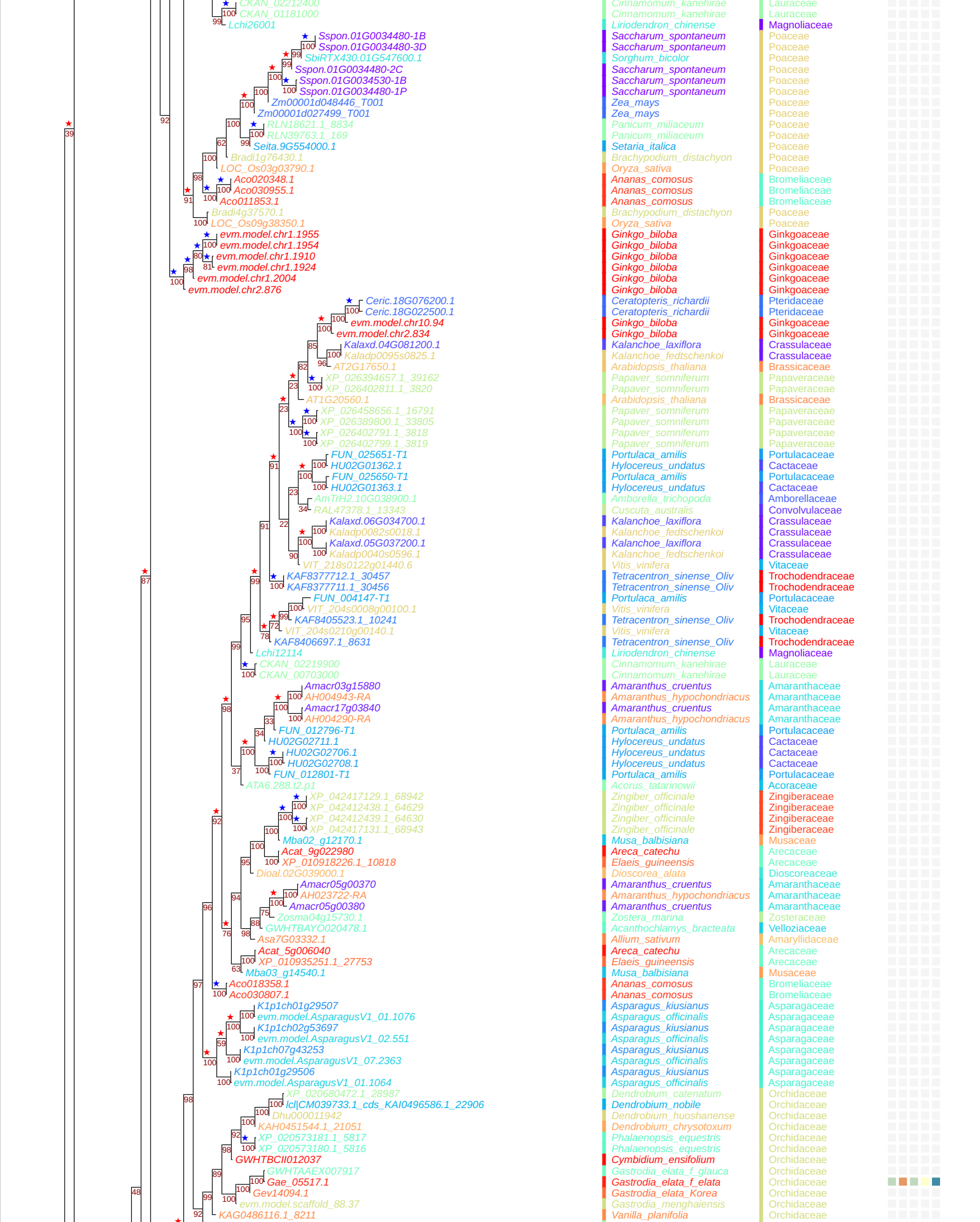
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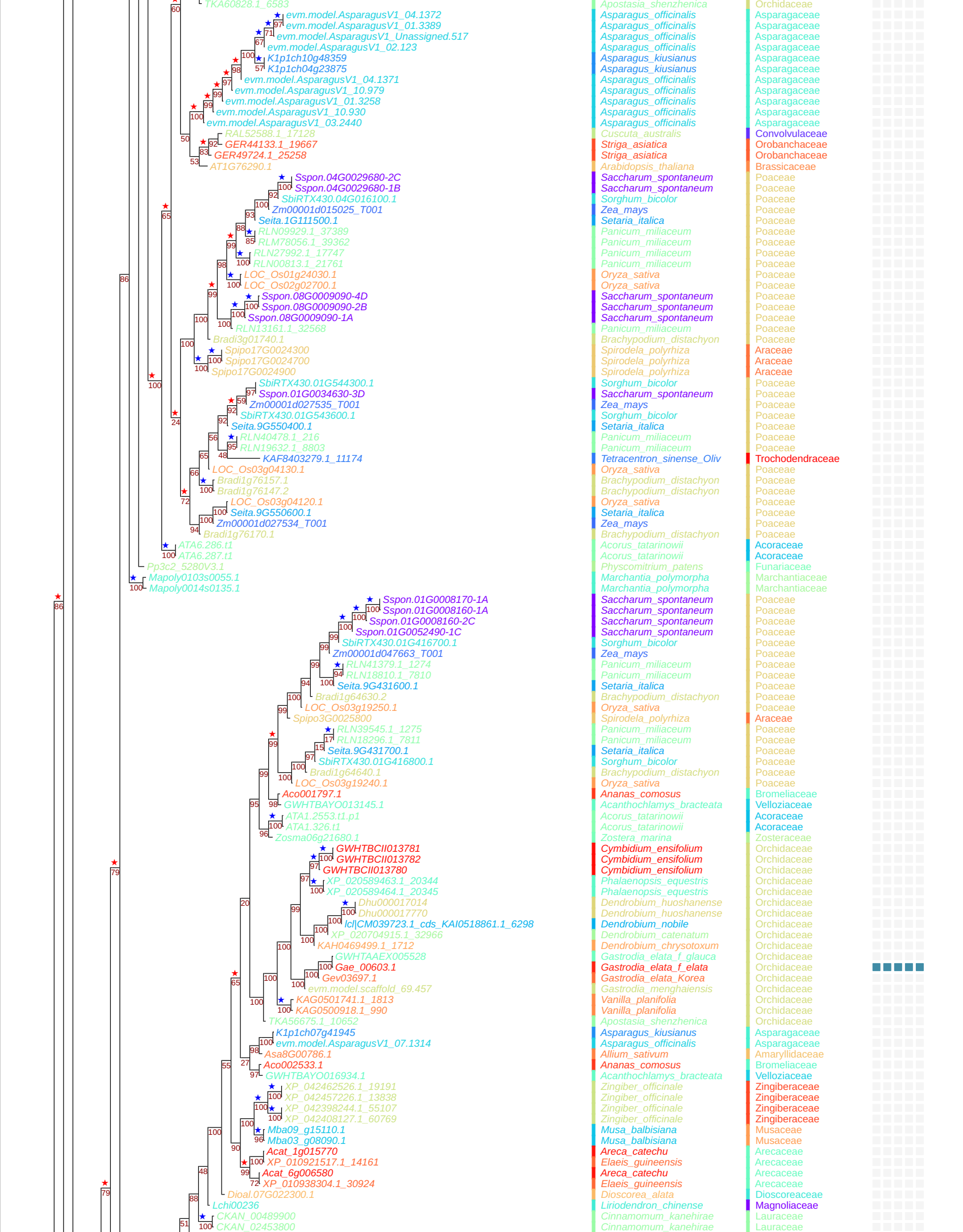
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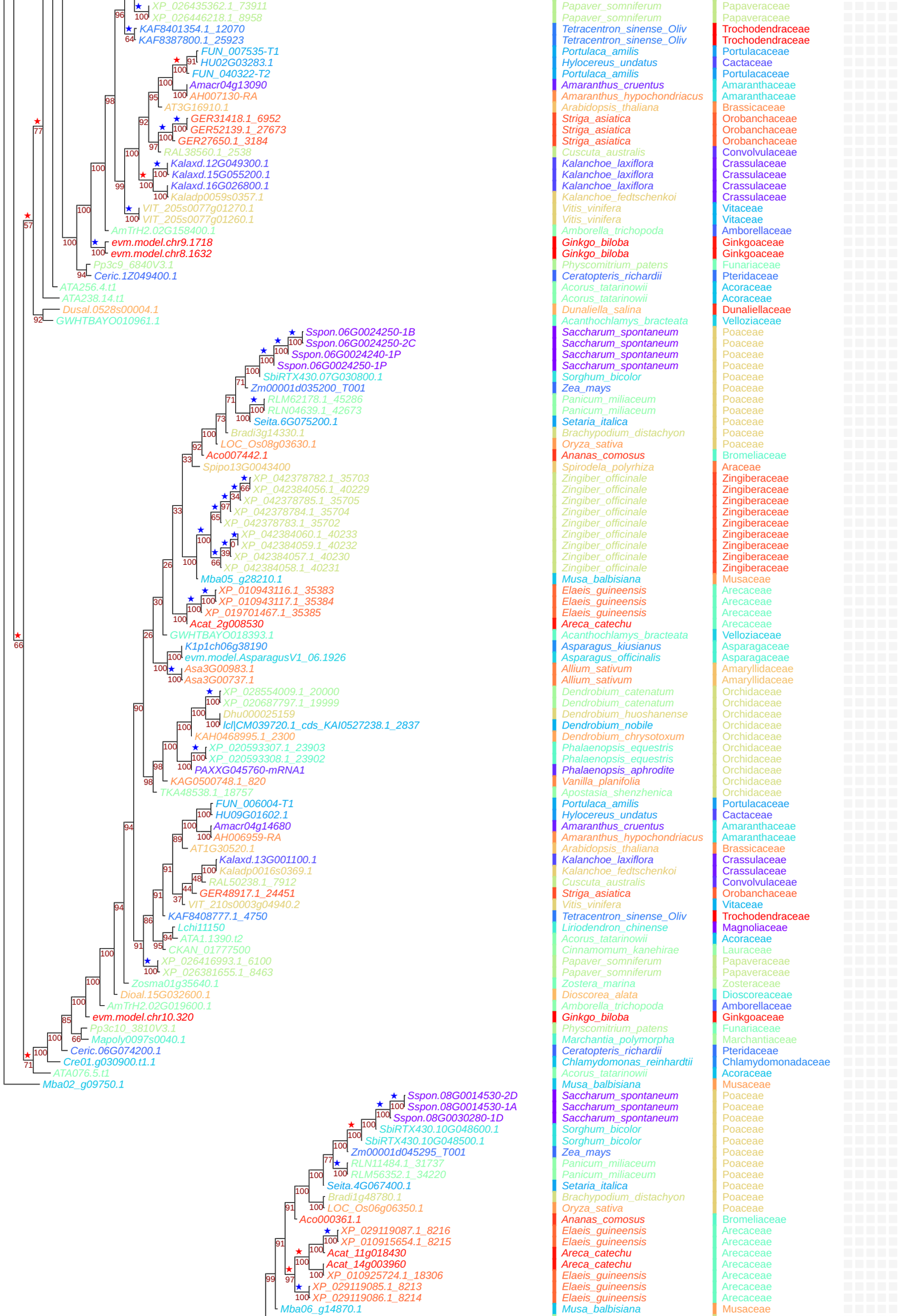
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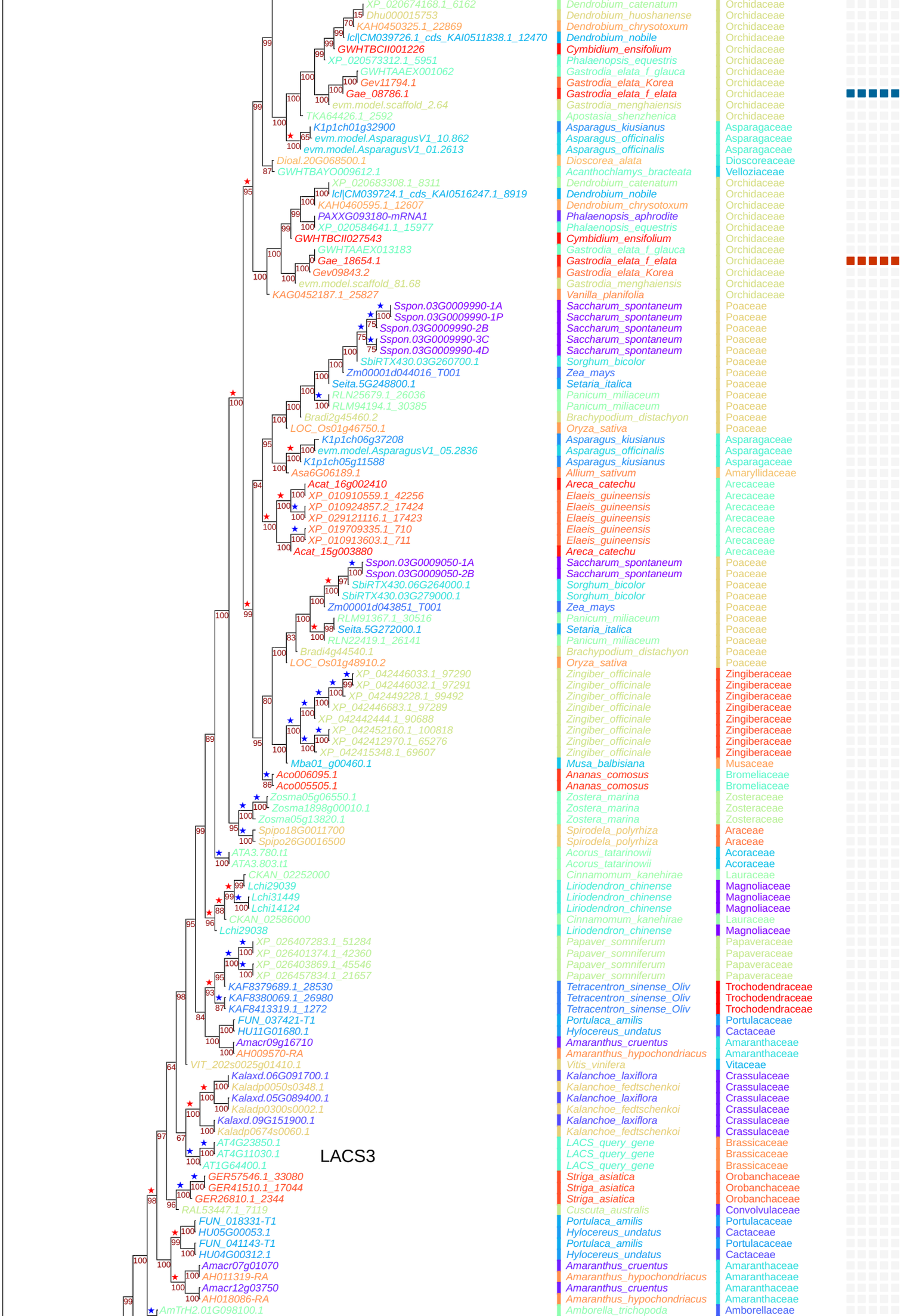
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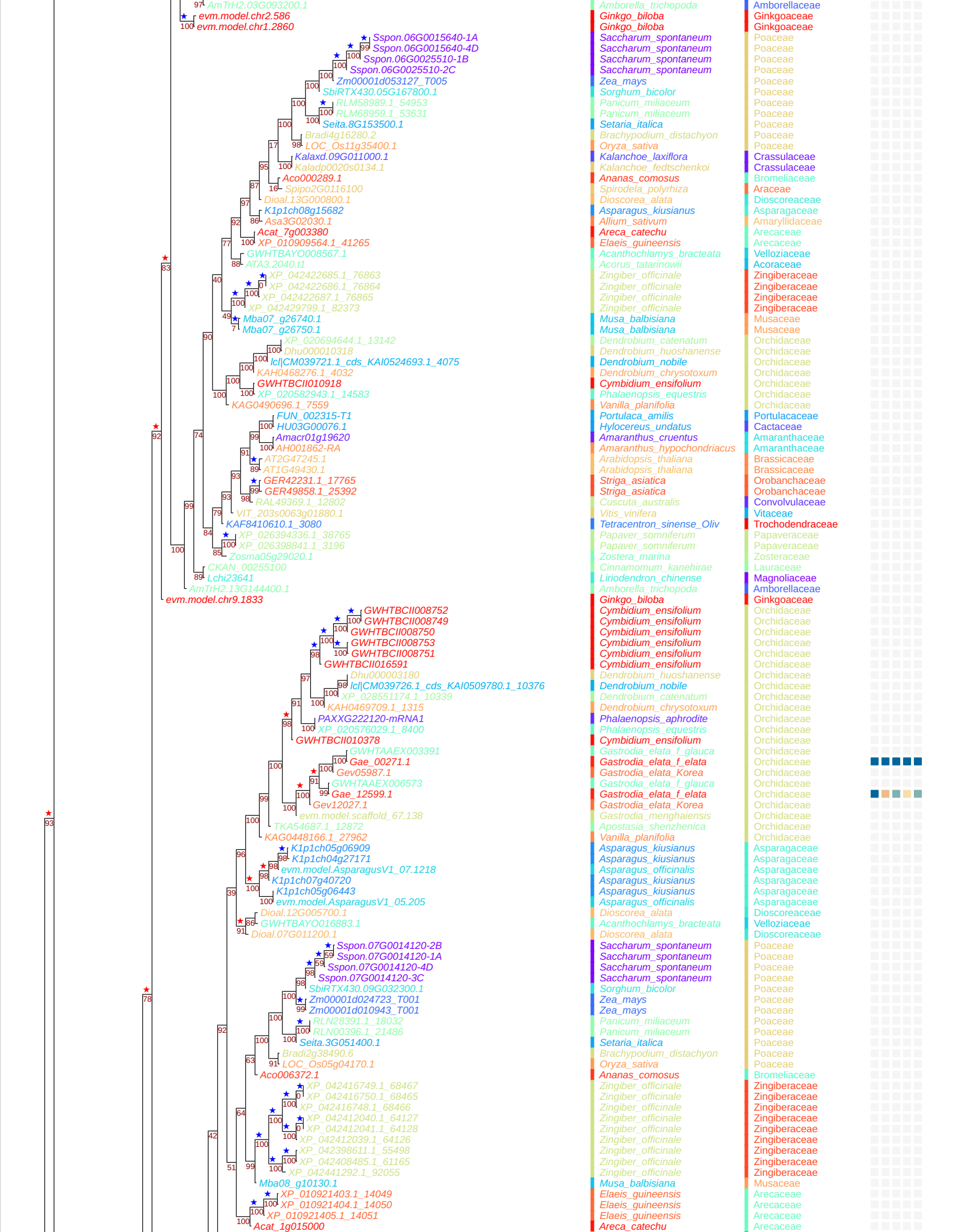
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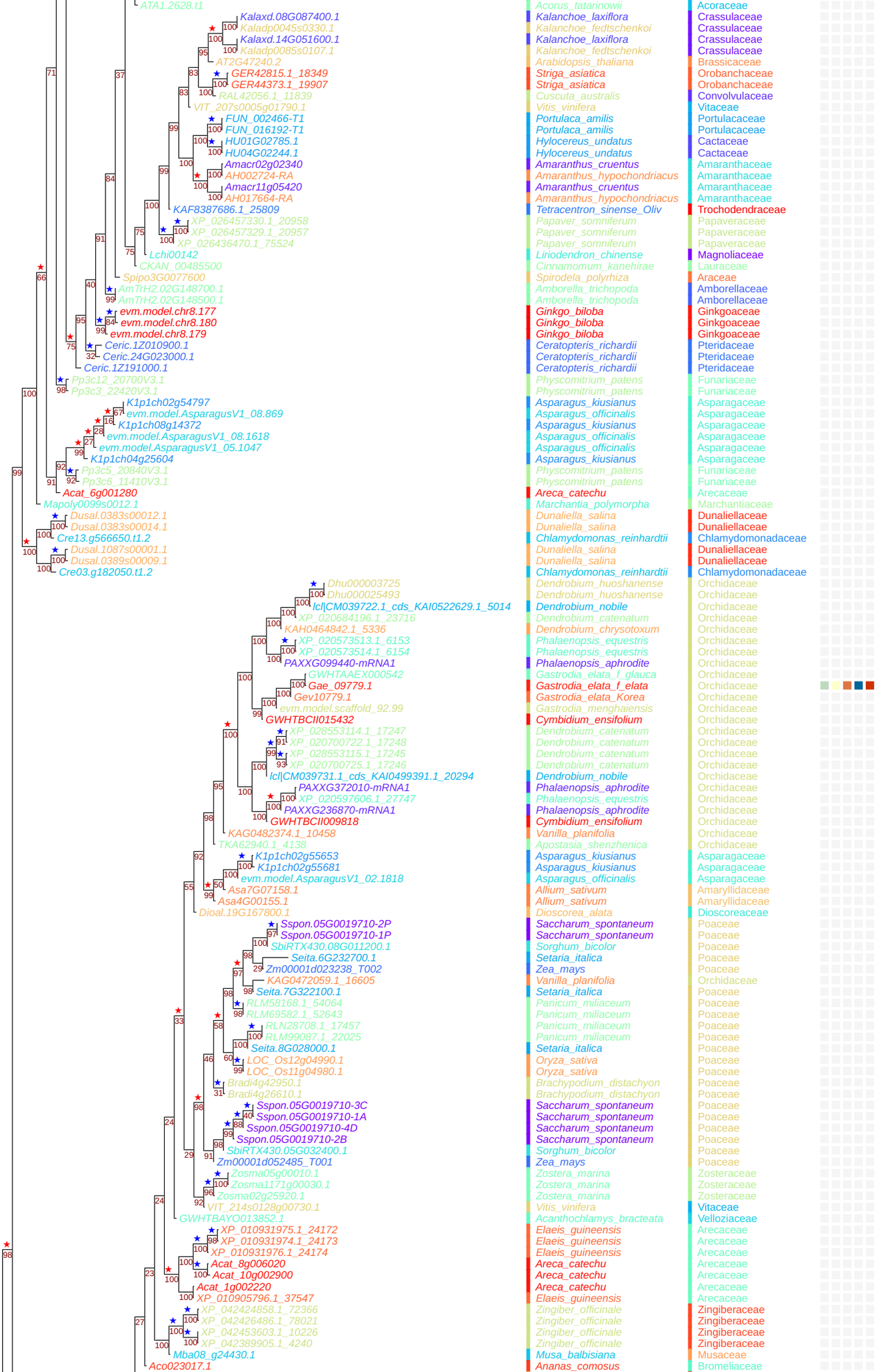
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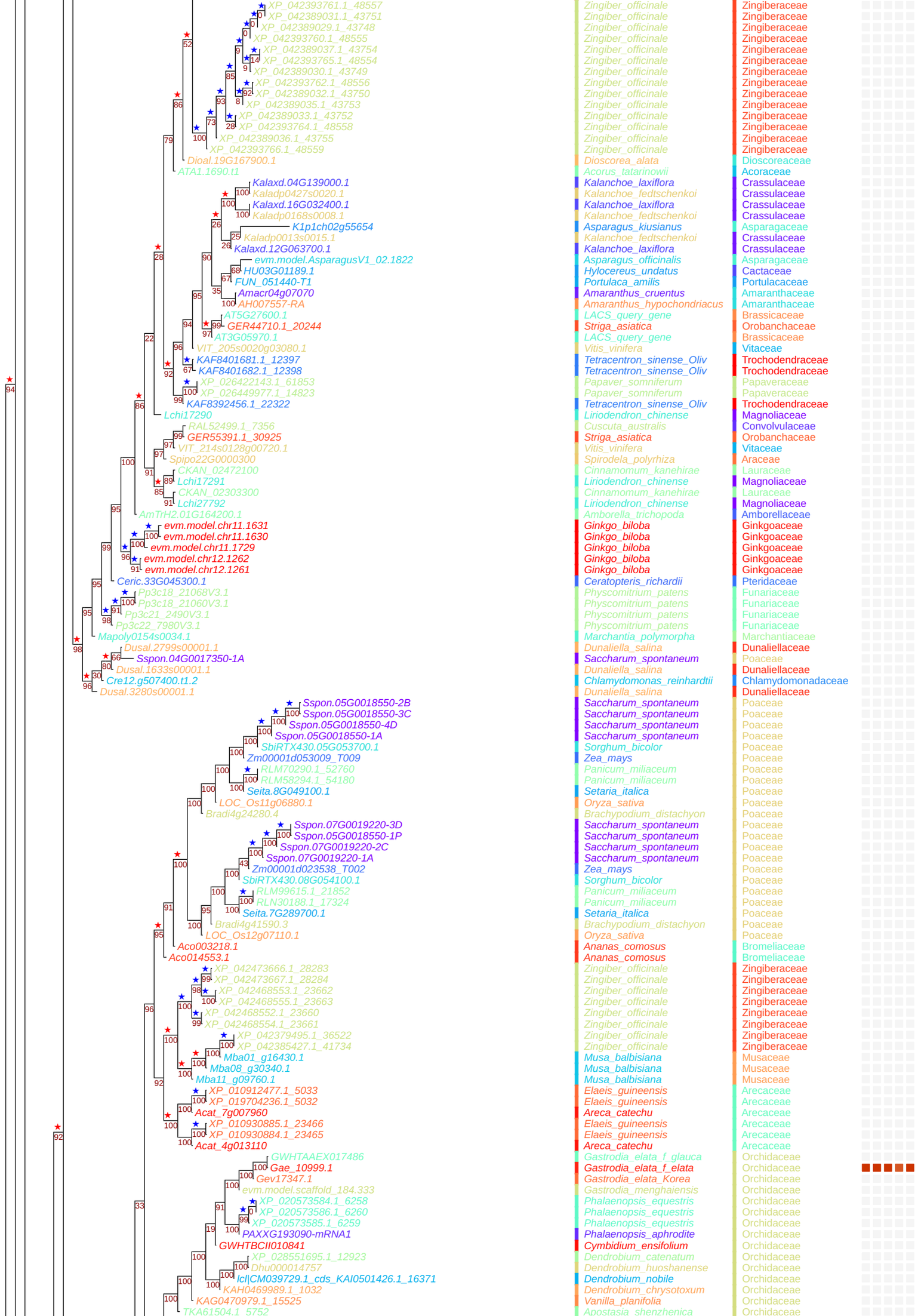
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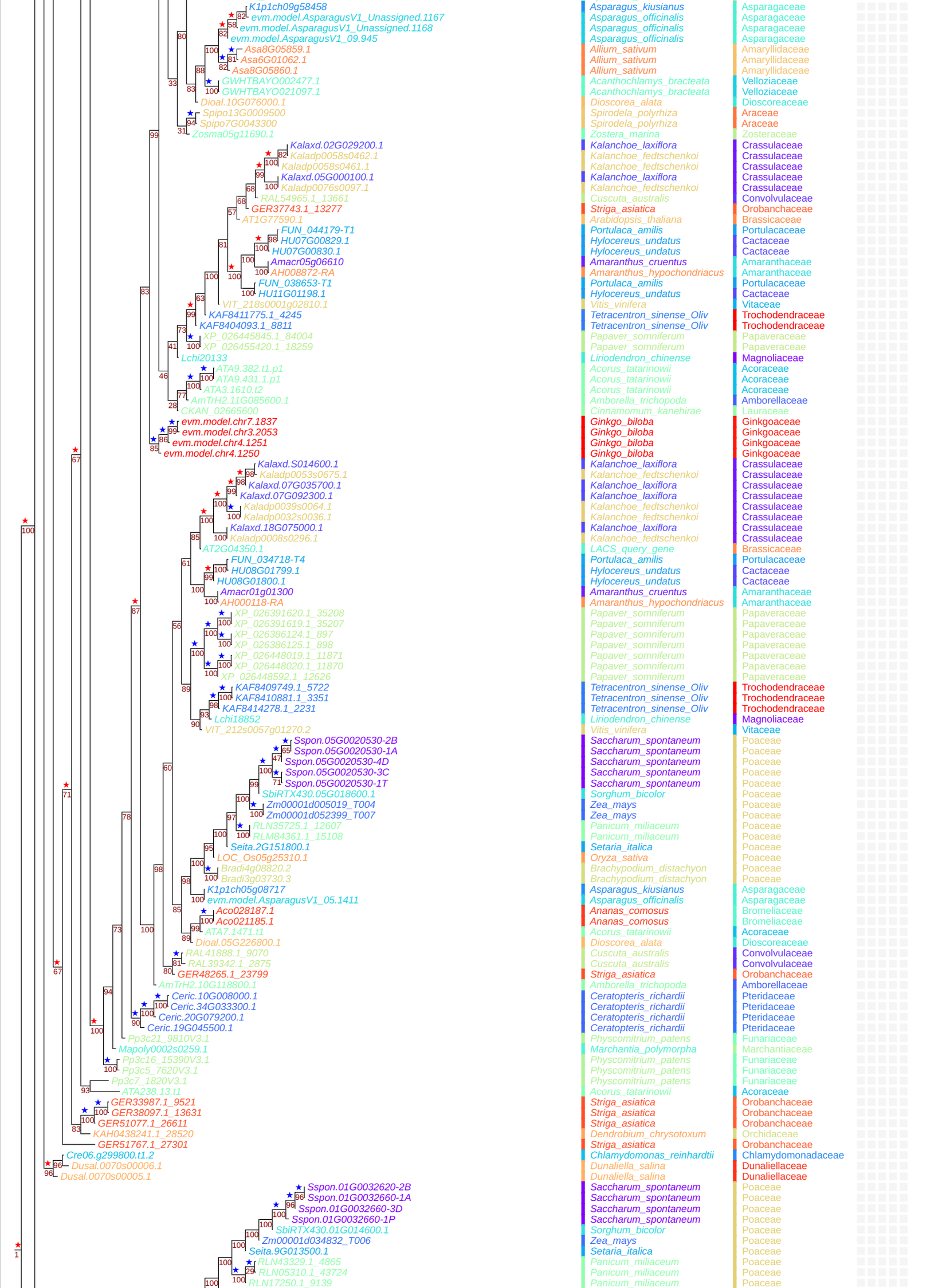
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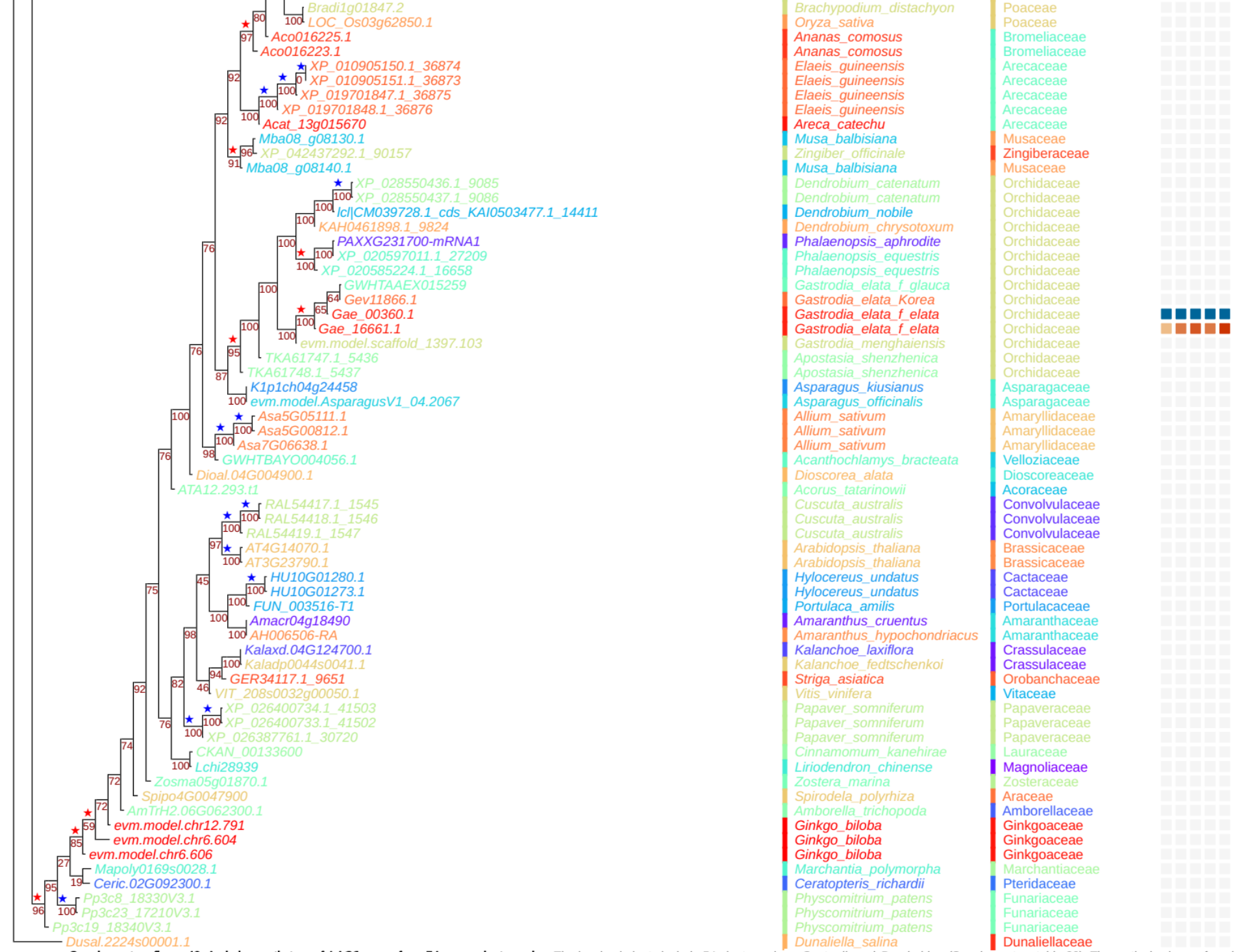
K1p1ch05g08717 Asparagus_kiusianus Asparagaceae
evm.model.AsparagusV1_05.1411 Asparagus_officinalis Asparagaceae
Aco028187.1 Ananas_comosus Bromeliaceae
Aco021185.1 Ananas_comosus Bromeliaceae
ATA7.1471.t1 Acorus_tatarinowii Acoraceae
Dioal.05G226800.1 Dioscorea_alata Dioscoreaceae
RAL41888.1_9070 Cuscuta_australis Convolvulaceae
RAL39342.1_2875 Cuscuta_australis Convolvulaceae
GER48265.1_23799 Striga_asiatica Orobanchaceae
AmTrH2.10G118800.1 Amborella_trichopoda Amborellaceae
Ceric.10G008000.1 Ceratopteris_richardii Pteridaceae
Ceric.34G033300.1 Ceratopteris_richardii Pteridaceae
Ceric.20G079200.1 Ceratopteris_richardii Pteridaceae
Ceric.19G045500.1 Ceratopteris_richardii Pteridaceae
Pp3c21_9810V3.1 Physcomitrium_patens Funariaceae
Mapoly0002s0259.1 Marchantia_polymorpha Marchantiaceae
Pp3c16_15390V3.1 Physcomitrium_patens Funariaceae
Pp3c5_7620V3.1 Physcomitrium_patens Funariaceae
Pp3c7_1820V3.1 Physcomitrium_patens Funariaceae
ATA238.13.t1 Acorus_tatarinowii Acoraceae
GER33987.1_9521 Striga_asiatica Orobanchaceae
GER38097.1_13631 Striga_asiatica Orobanchaceae
GER51077.1_26611 Striga_asiatica Orobanchaceae
KAH0438241.1_28520 Dendrobium_chrysotoxum Orchidaceae
GER51767.1_27301 Striga_asiatica Orobanchaceae
Cre06.g299800.t1.2 Chlamydomonas_reinhardtii Chlamydomonadaceae
Dusal.0070s00006.1 Dunaliella_salina Dunaliellaceae
Dusal.0070s00005.1 Dunaliella_salina Dunaliellaceae
Sspon.01G0032620-2B Saccharum_spontaneum Poaceae
Sspon.01G0032660-1A Saccharum_spontaneum Poaceae
Sspon.01G0032660-3D Saccharum_spontaneum Poaceae
Sspon.01G0032660-1P Saccharum_spontaneum Poaceae
SbiRTX430.01G014600.1 Sorghum_bicolor Poaceae
Zm00001d034832_T006 Zea_mays Poaceae
Seita.9G013500.1 Setaria_italica Poaceae
RLN43329.1_4865 Panicum_miliaceum Poaceae
RLN05310.1_43724 Panicum_miliaceum Poaceae
RLN17250.1_9139 Panicum_miliaceum Poaceae



Supplementary figure 49. A phylogenetic tree of *LACS* genes from 54 green plant species. The involved plants include 54 plants such as *Gastrodia* and *Dendrobium* (Supplementary table 20). The vertical columns from left to right in the figure represent gene ID, species name, species family, and expression level, respectively. Interspecific and intraspecific whole-genome duplication events are marked in the upper left corner of the figure. Bootstrap values have been labeled on the phylogenetic tree, which indicate the credibility of the branches. The query genes used in *A. thaliana* have been marked on the tree. The right side of the figure shows the expression data of duplicated genes in dark red *G. elata*, covering the following developmental stages: TMMM (immature tuber), TMBM (developing tuber), TMJM (mature tuber), TMGS (capsule), and TMHJ (inflorescence) .Each stage has three biological replicates, and the data have been averaged.