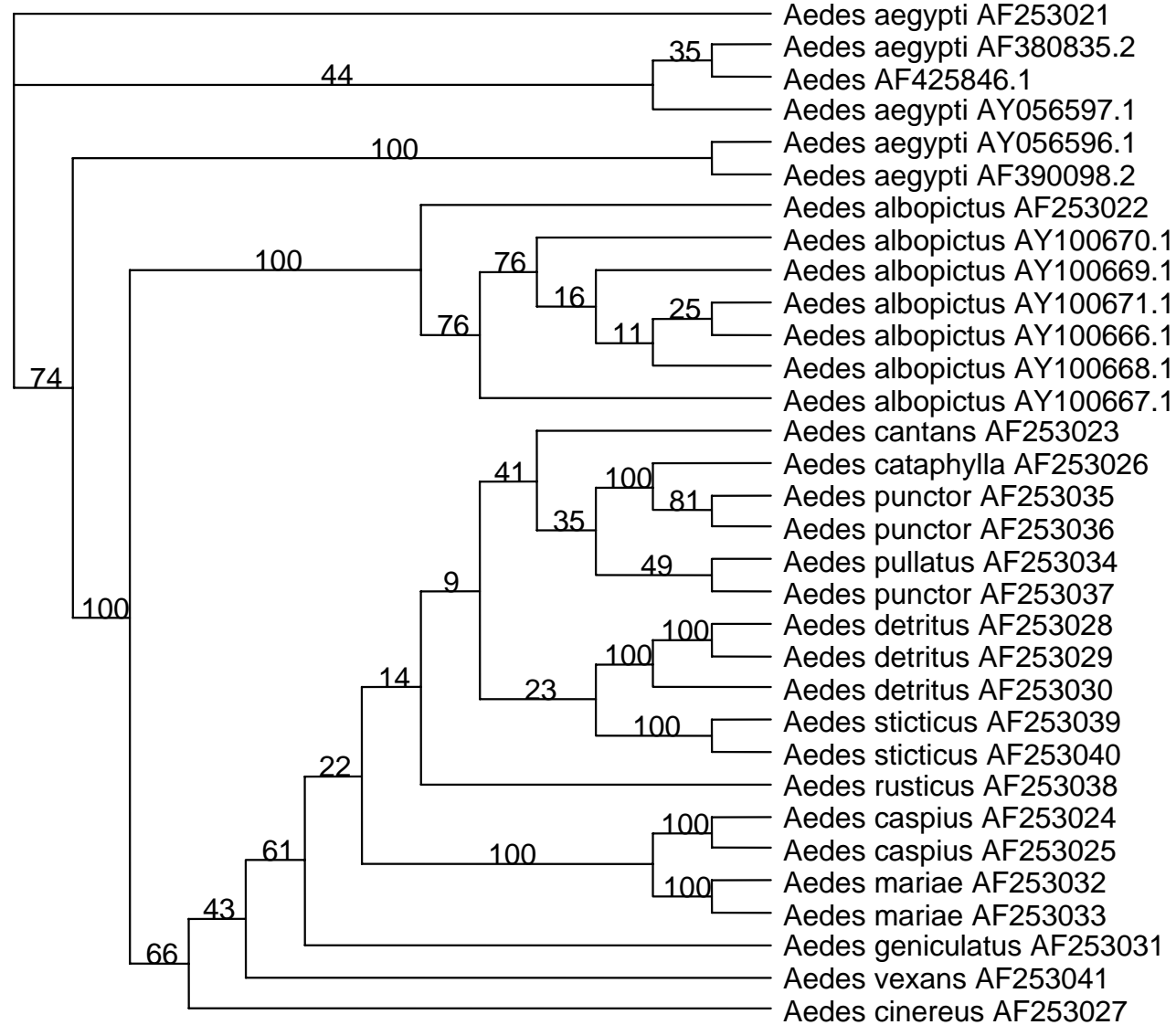


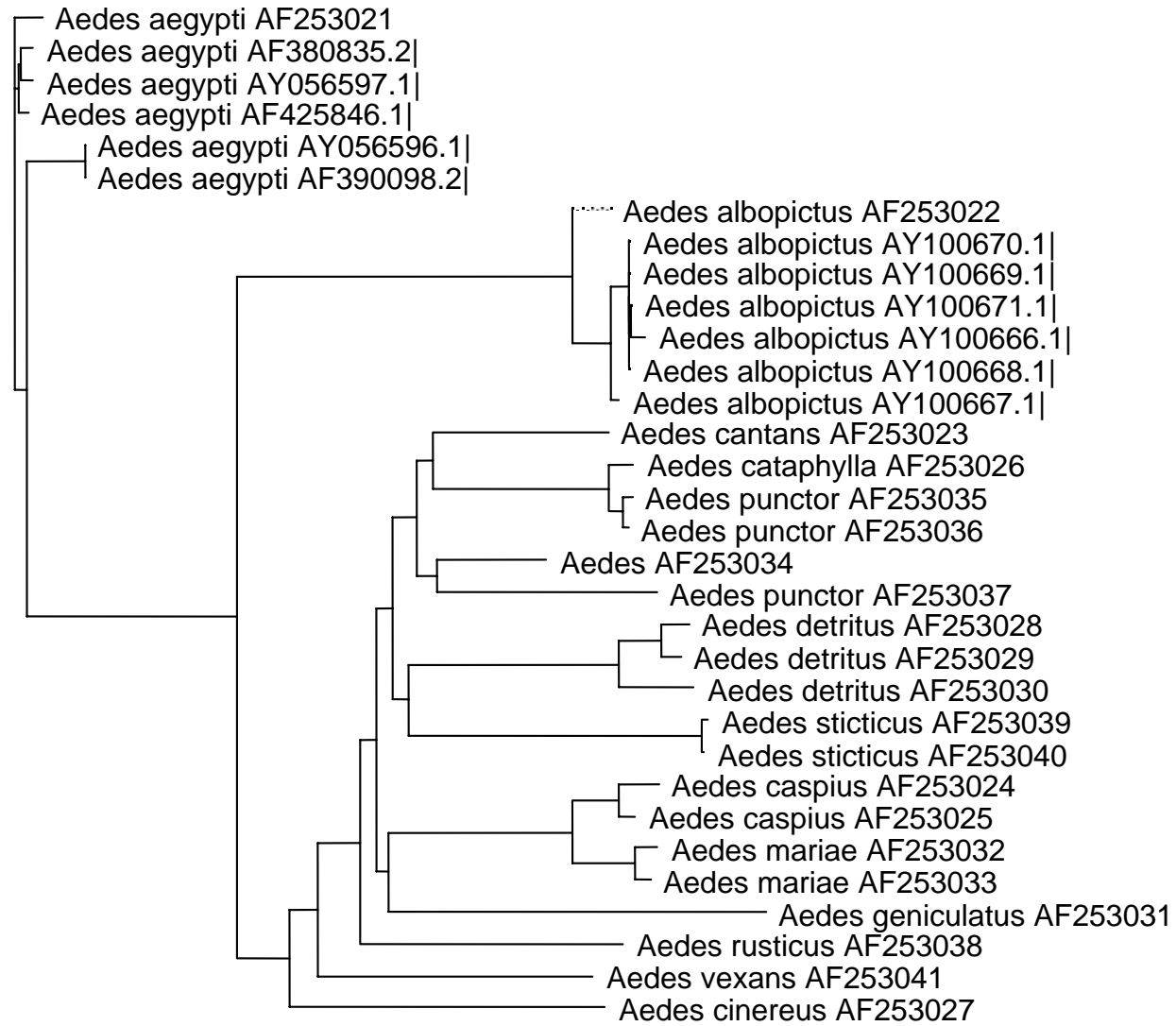
Supplementary Information 1.

Neighbor joining phylograms and bootstrap trees for genera with multiple intra- and interspecific sequences (*Aedes*, *Anastrepha*, *Anopheles*, *Asphondylia*, *Bactrocera*, *Calliphora*, *Chiastocheta*, *Chironomus*, *Chrysomya*, *Culicoides*, *Drosophila* (*Drosophila*), *Drosophila* (*Sophophora*), *Liriomyza*, *Lucilia*, *Paragus*, *Phytomyza*, *Sapromyza*, *Scathophaga*)

Bootstrap

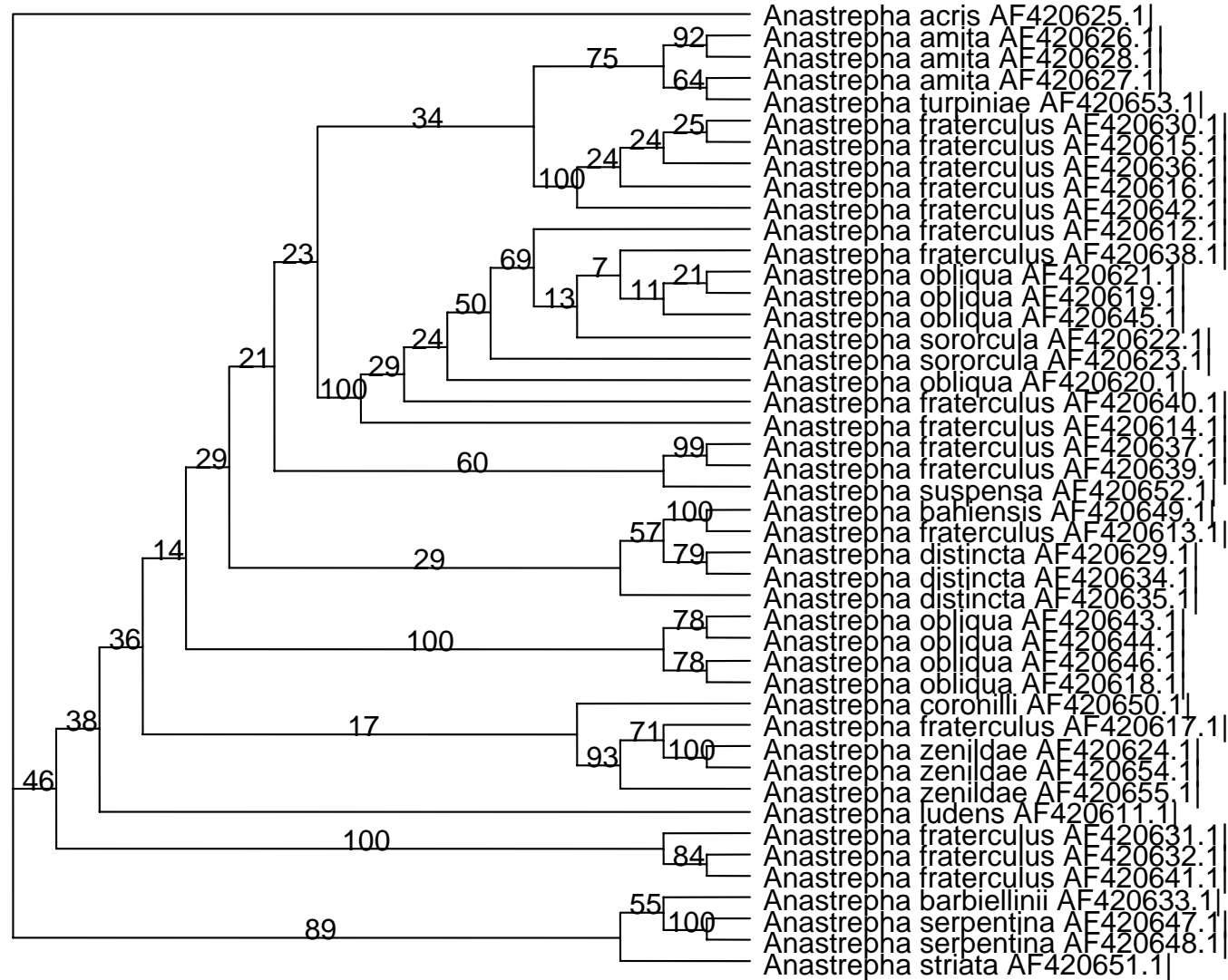


NJ

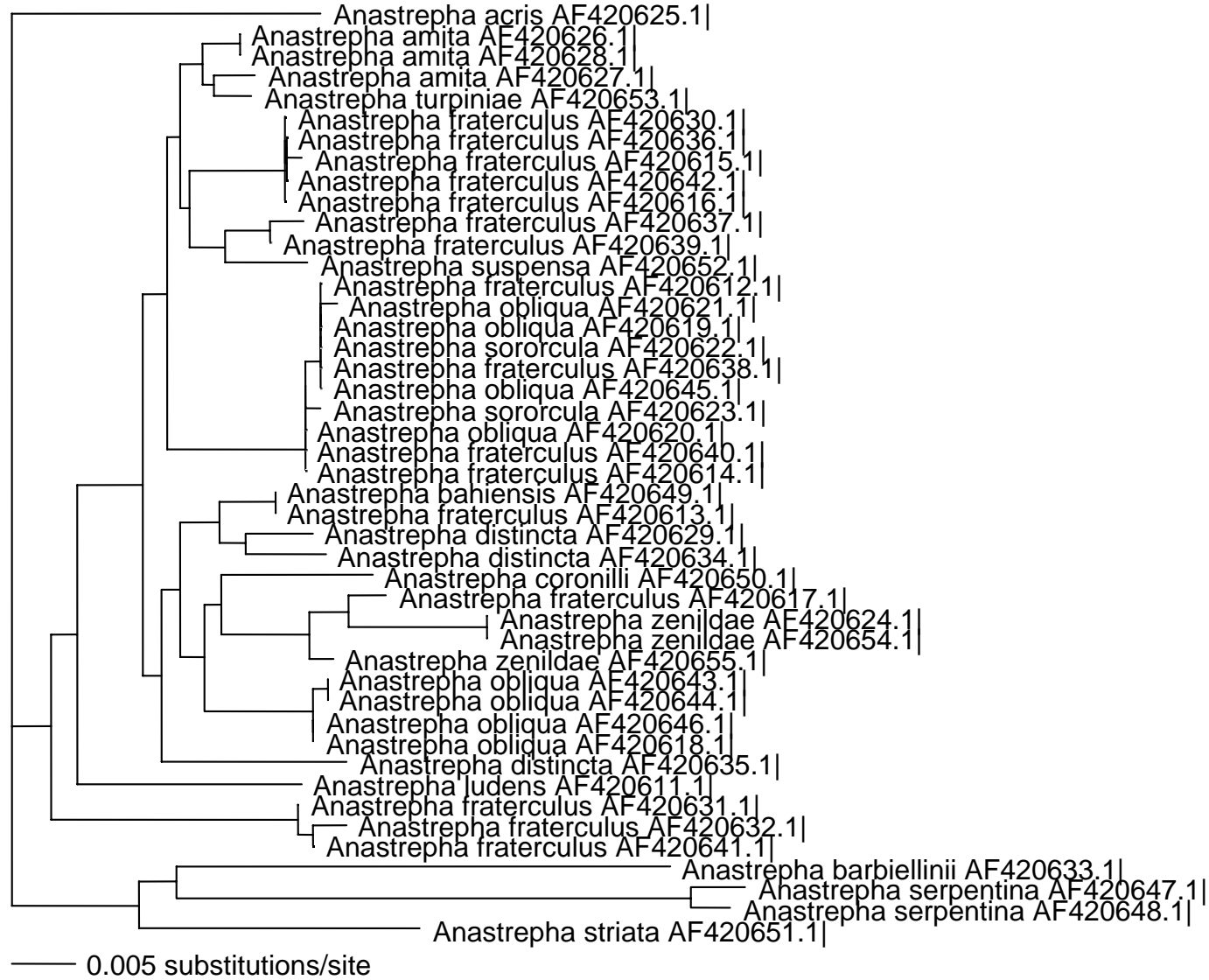


— 0.01 substitutions/site

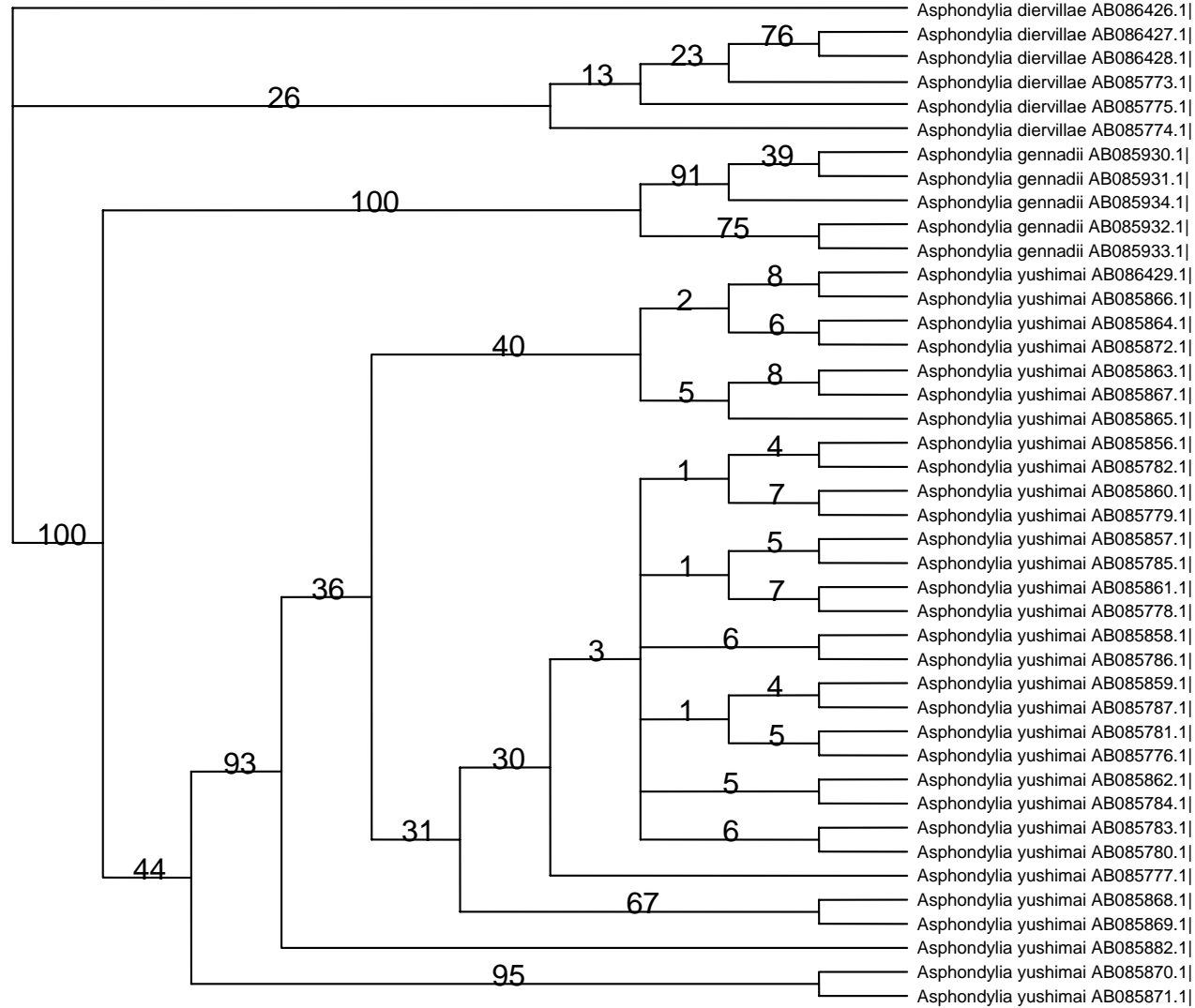
Bootstrap



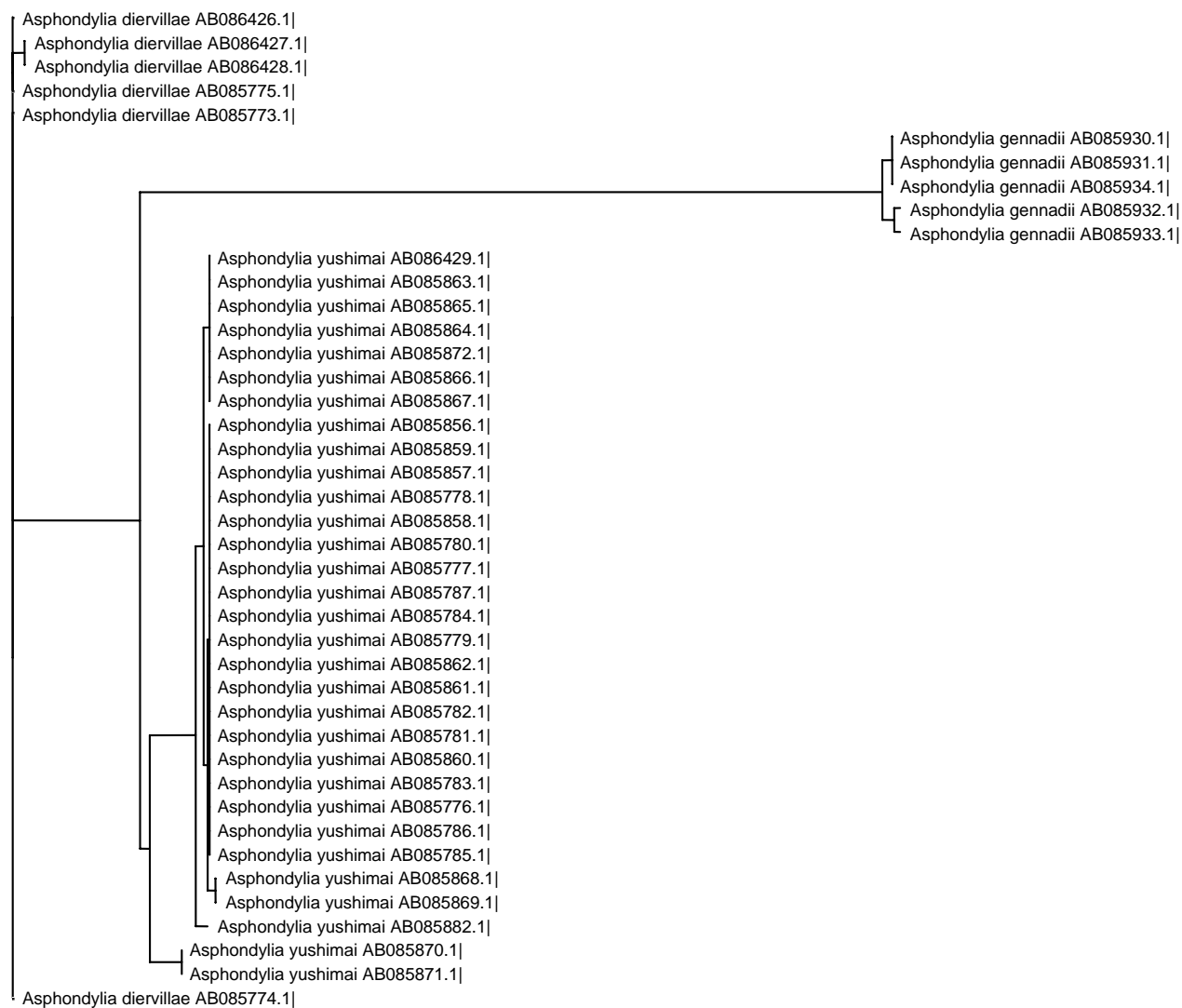
NJ



Bootstrap

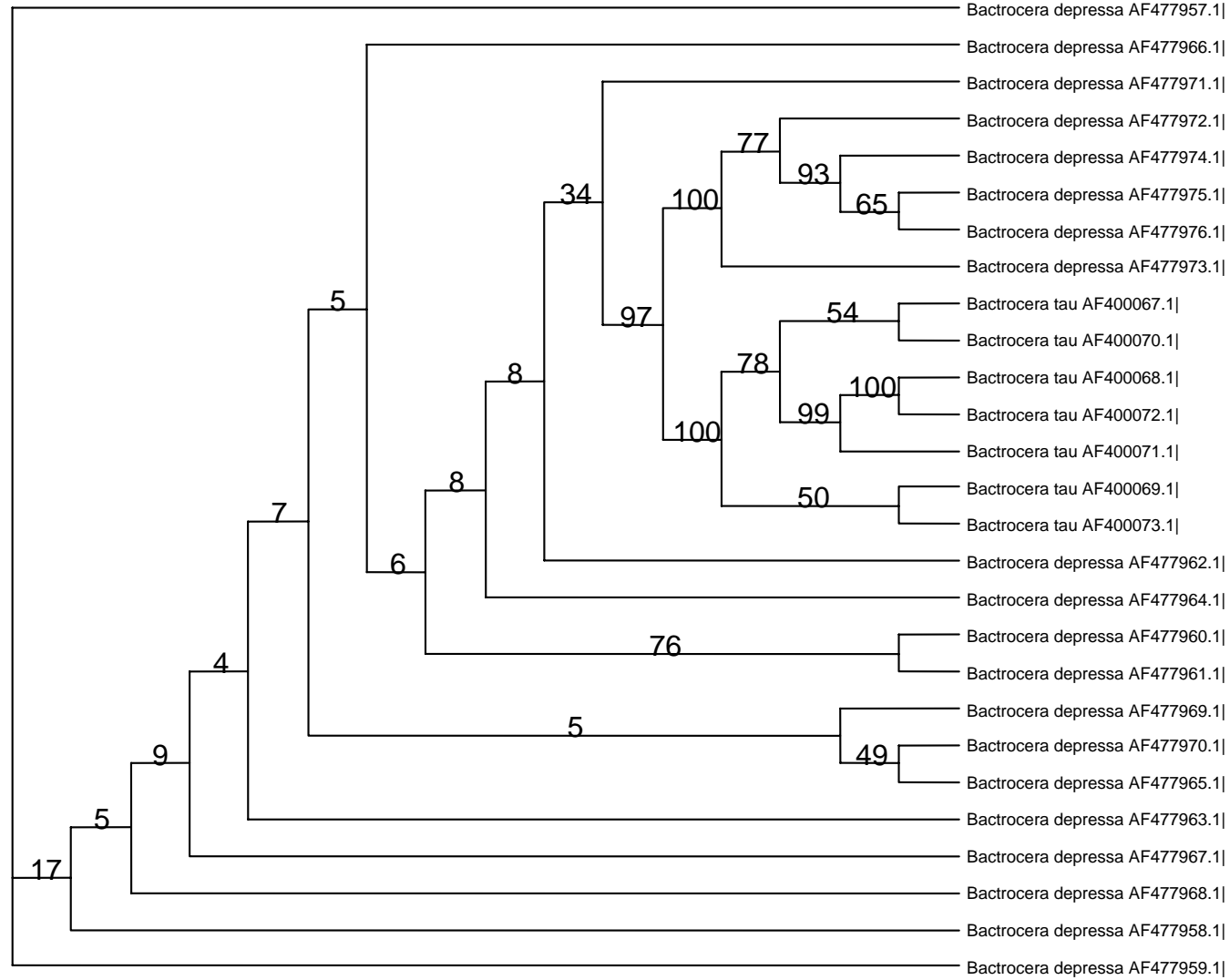


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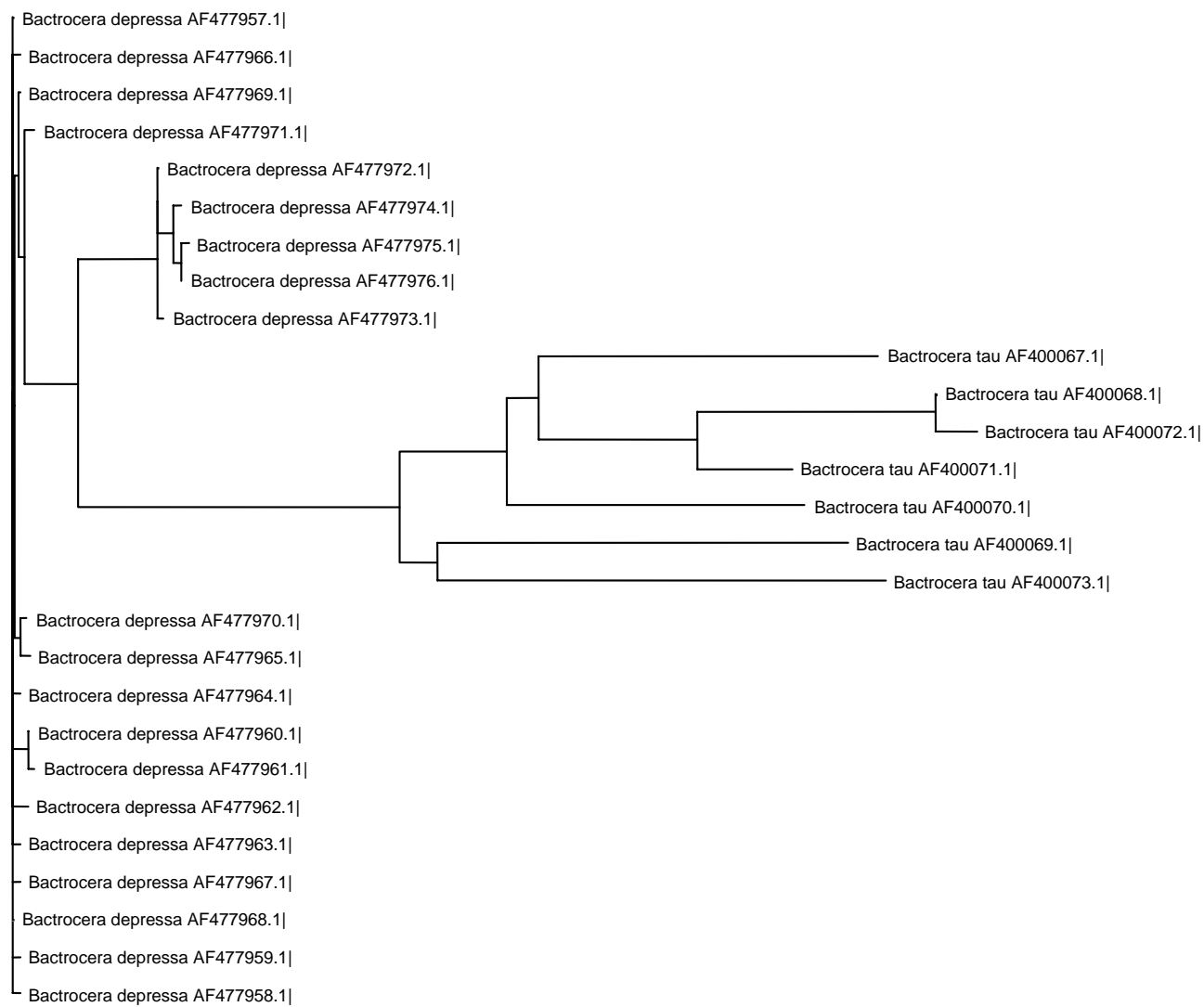


— 0.005 substitutions/site

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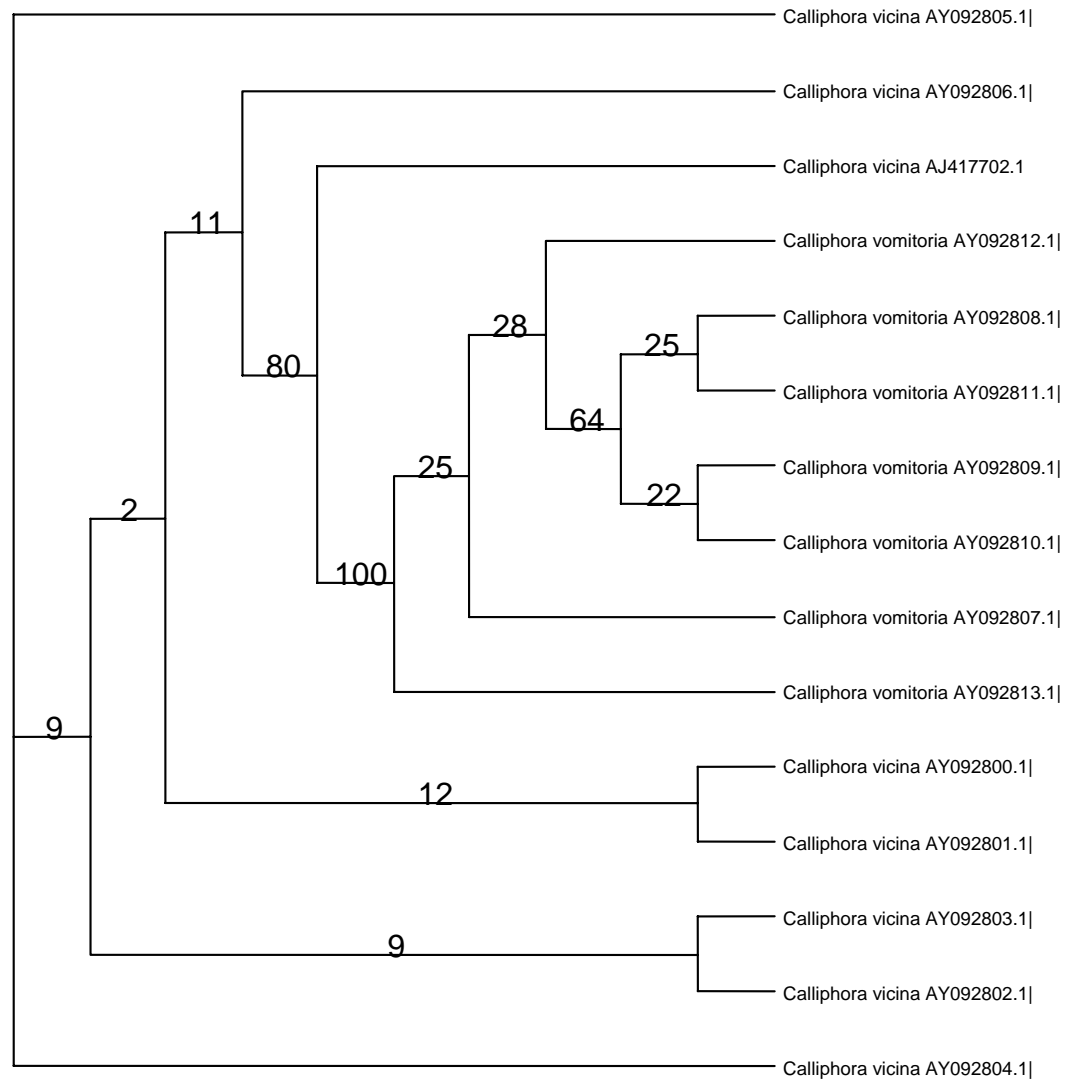


NJ

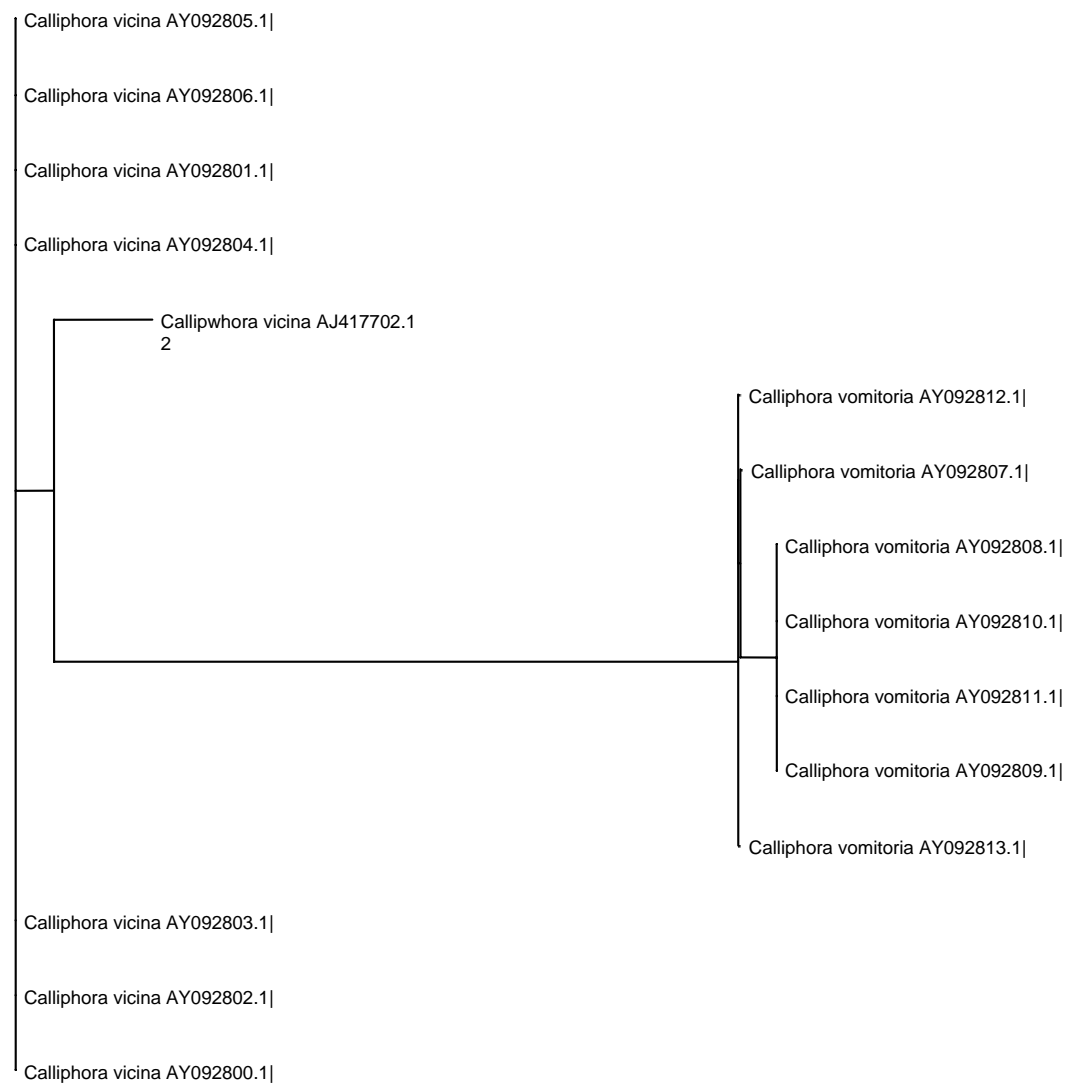


— 0.005 substitutions/site

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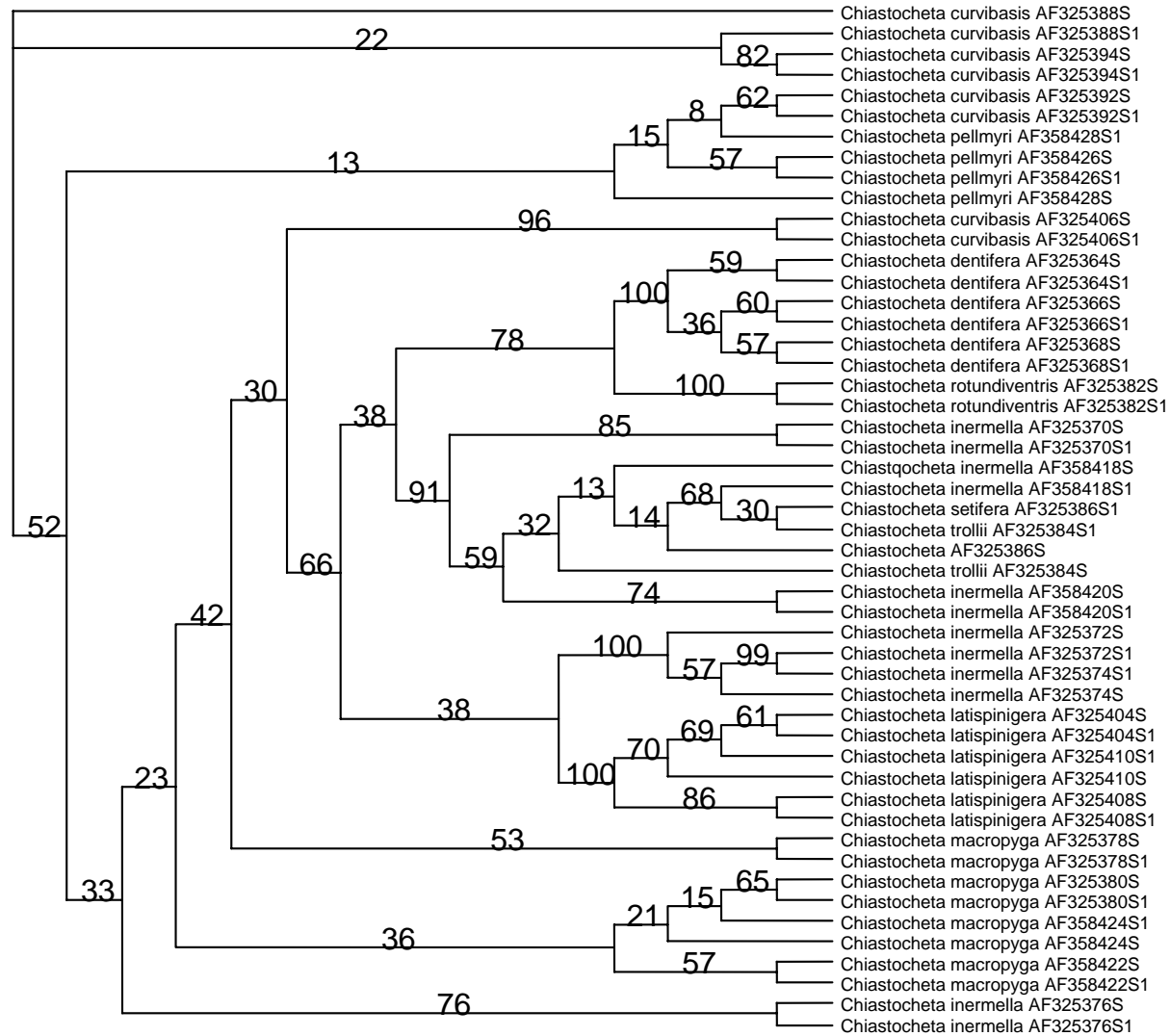


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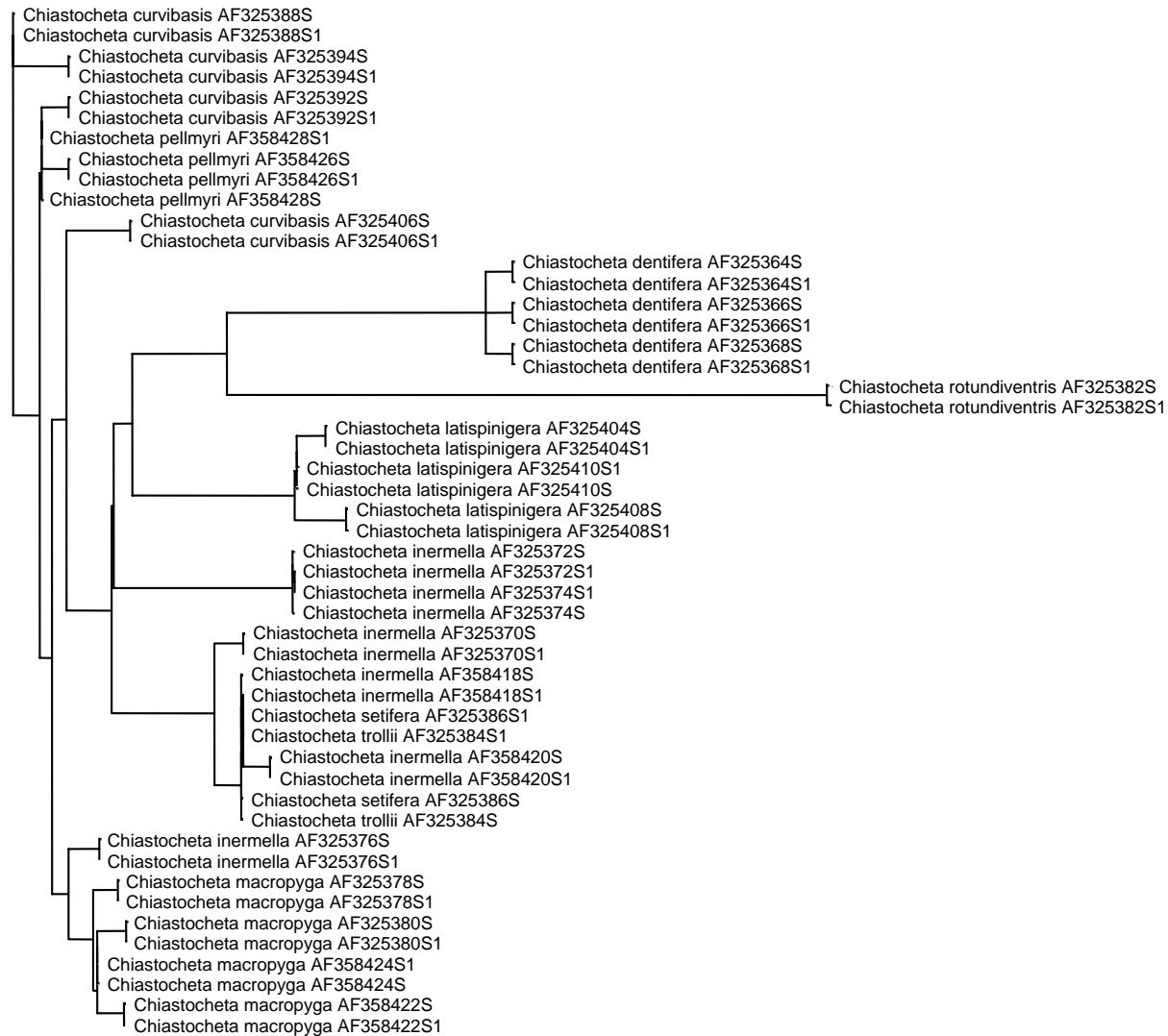


— 0.001 substitutions/site

Bootstrap

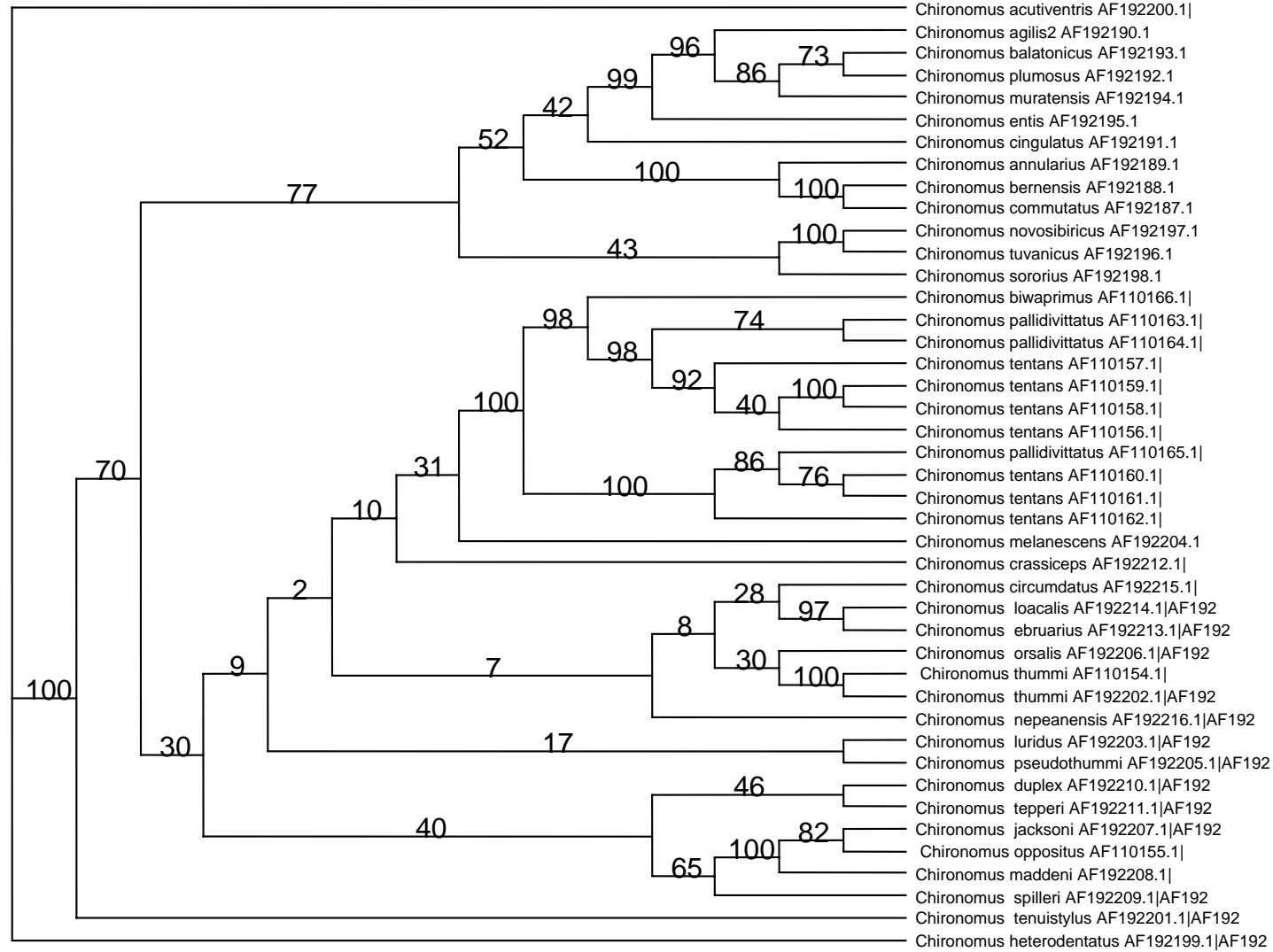


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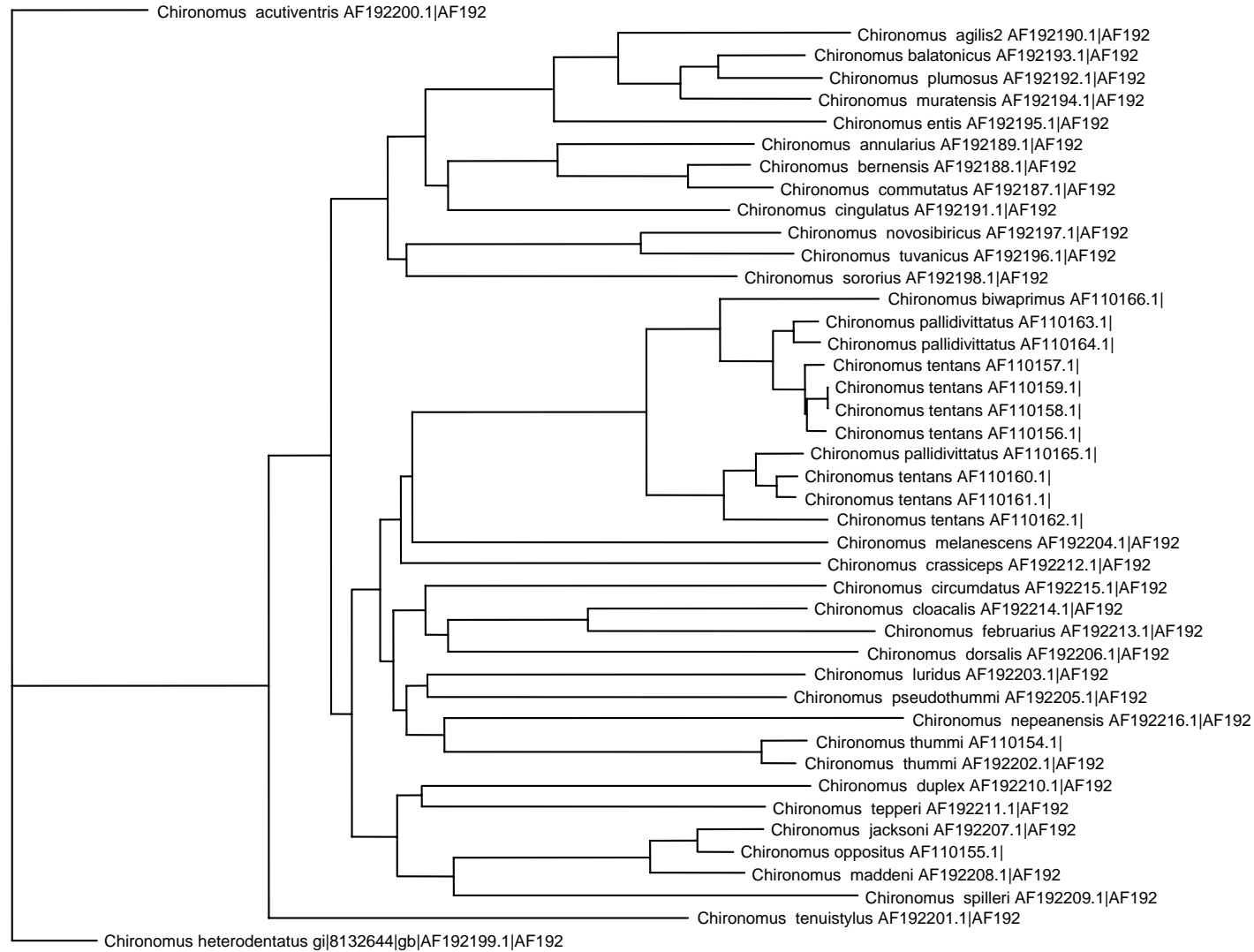


— 0.001 substitutions/site

Bootstrap

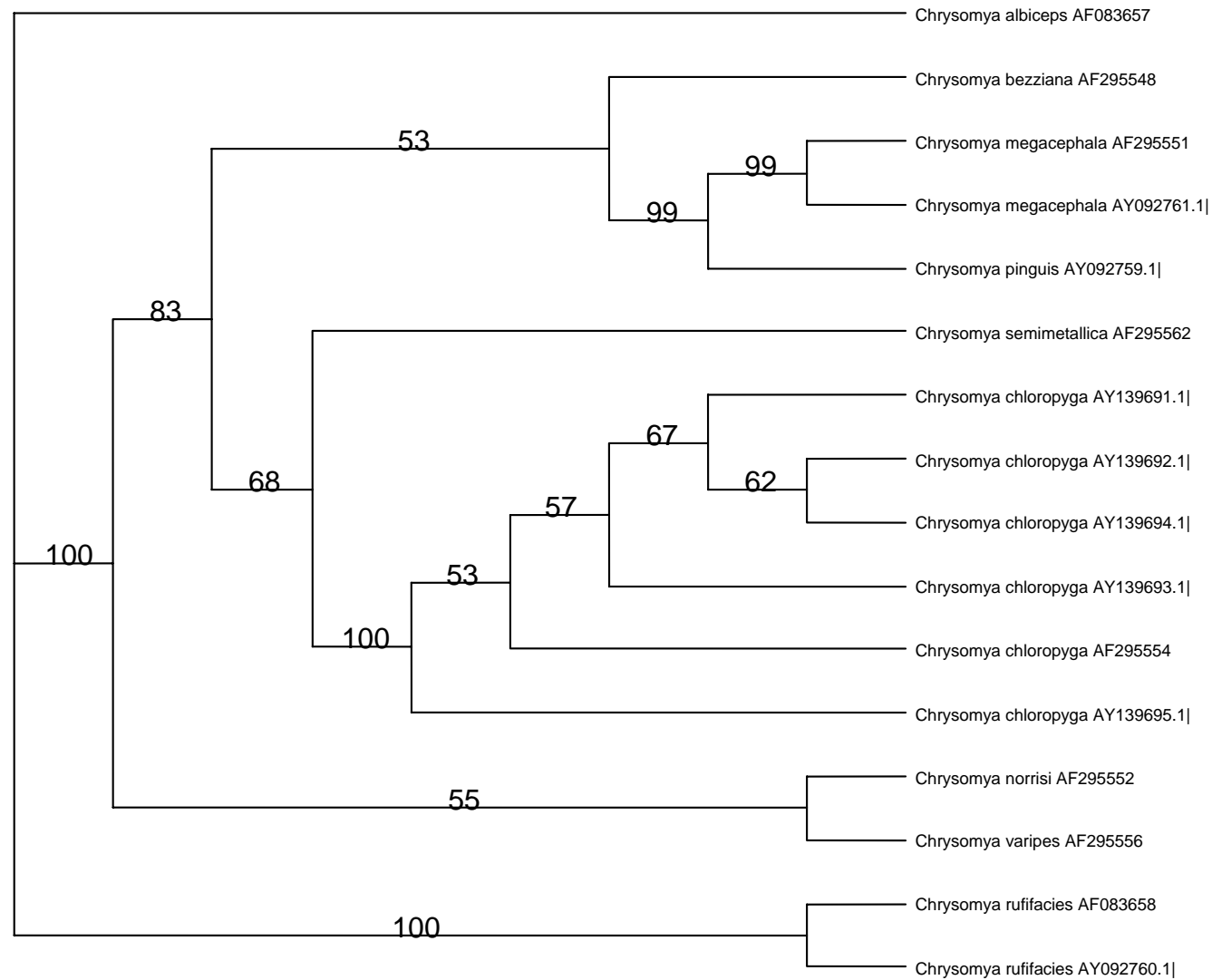


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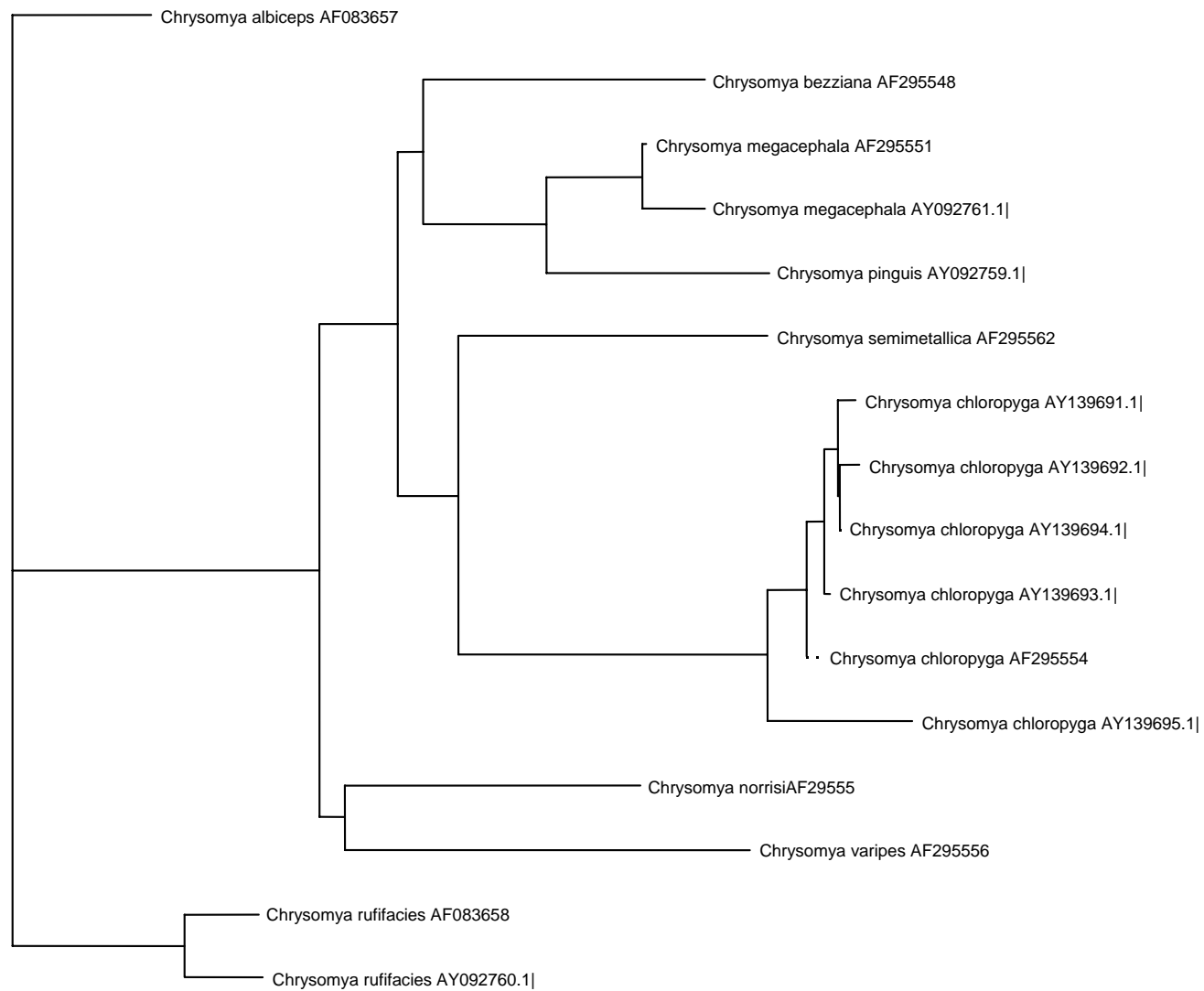


— 0.01 substitutions/site

Bootstrap

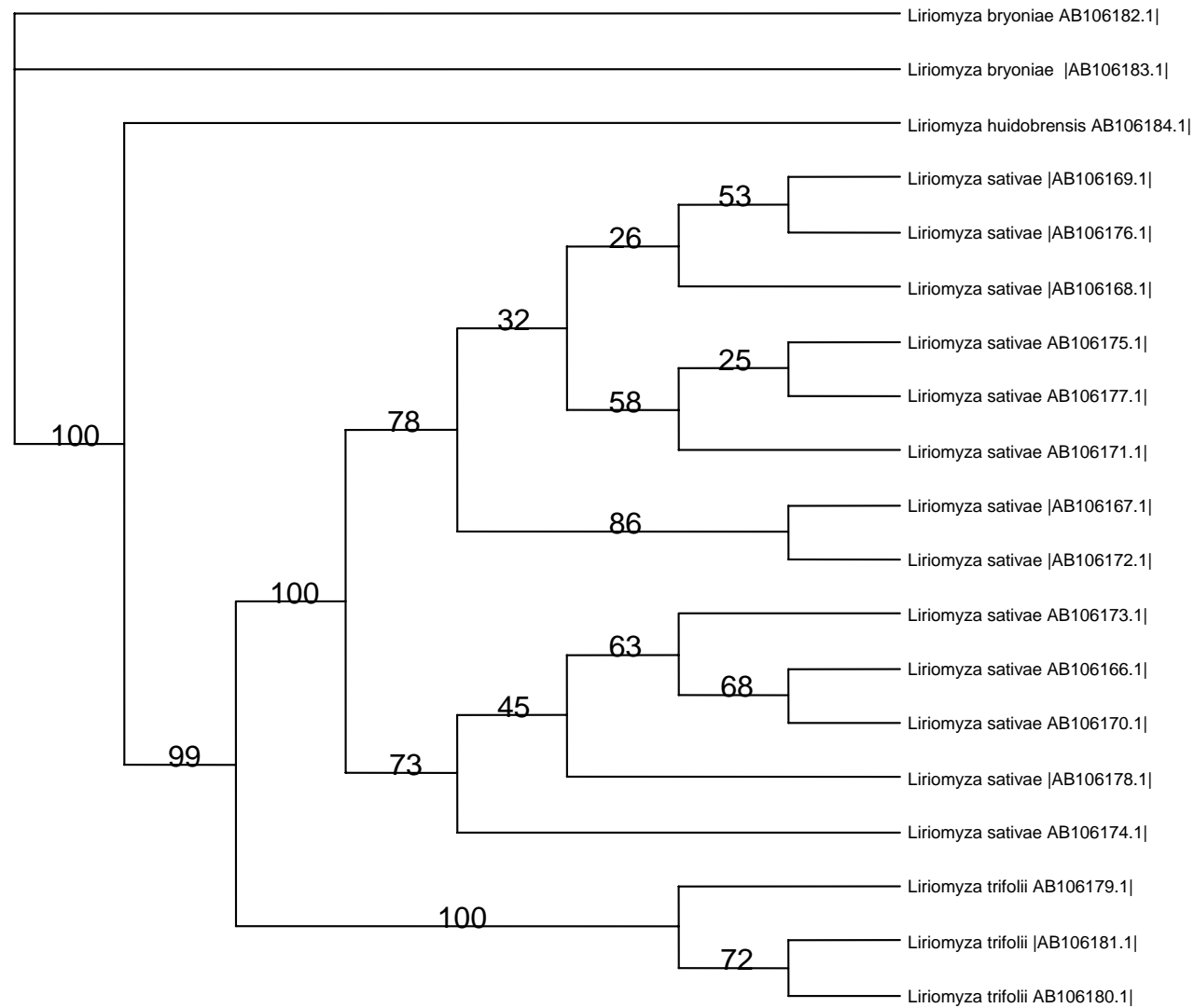


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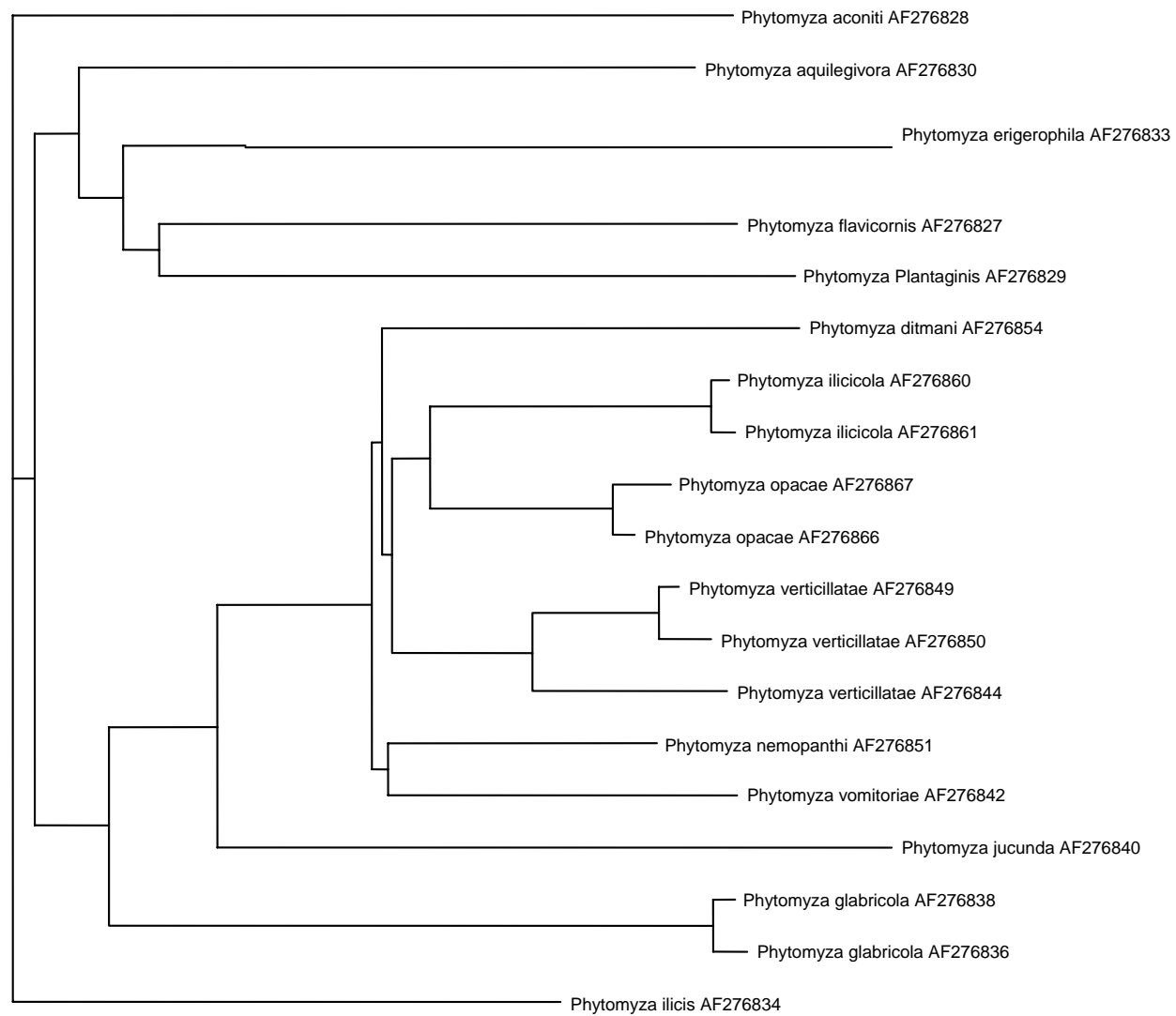


— 0.005 substitutions/site

Bootstrap

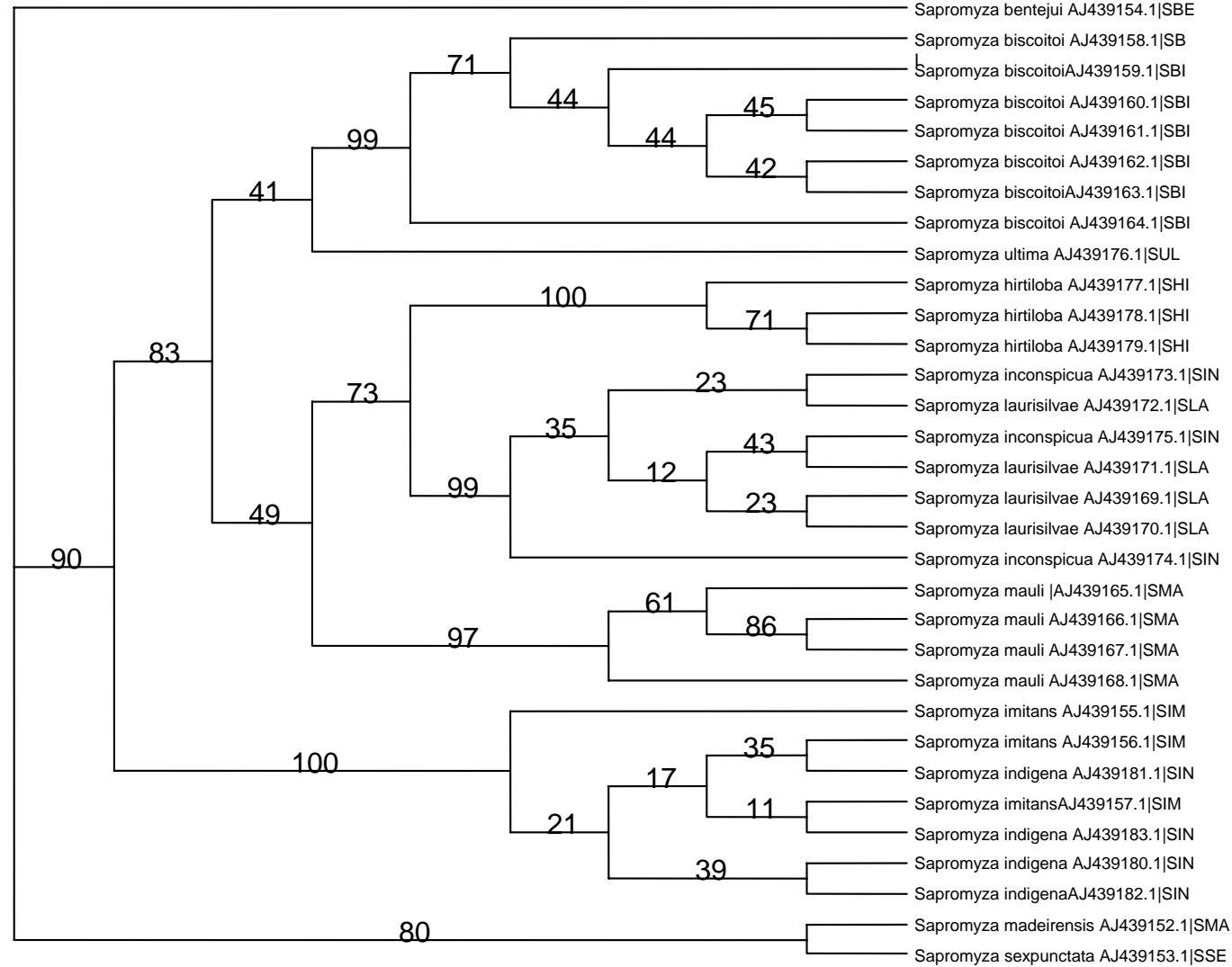


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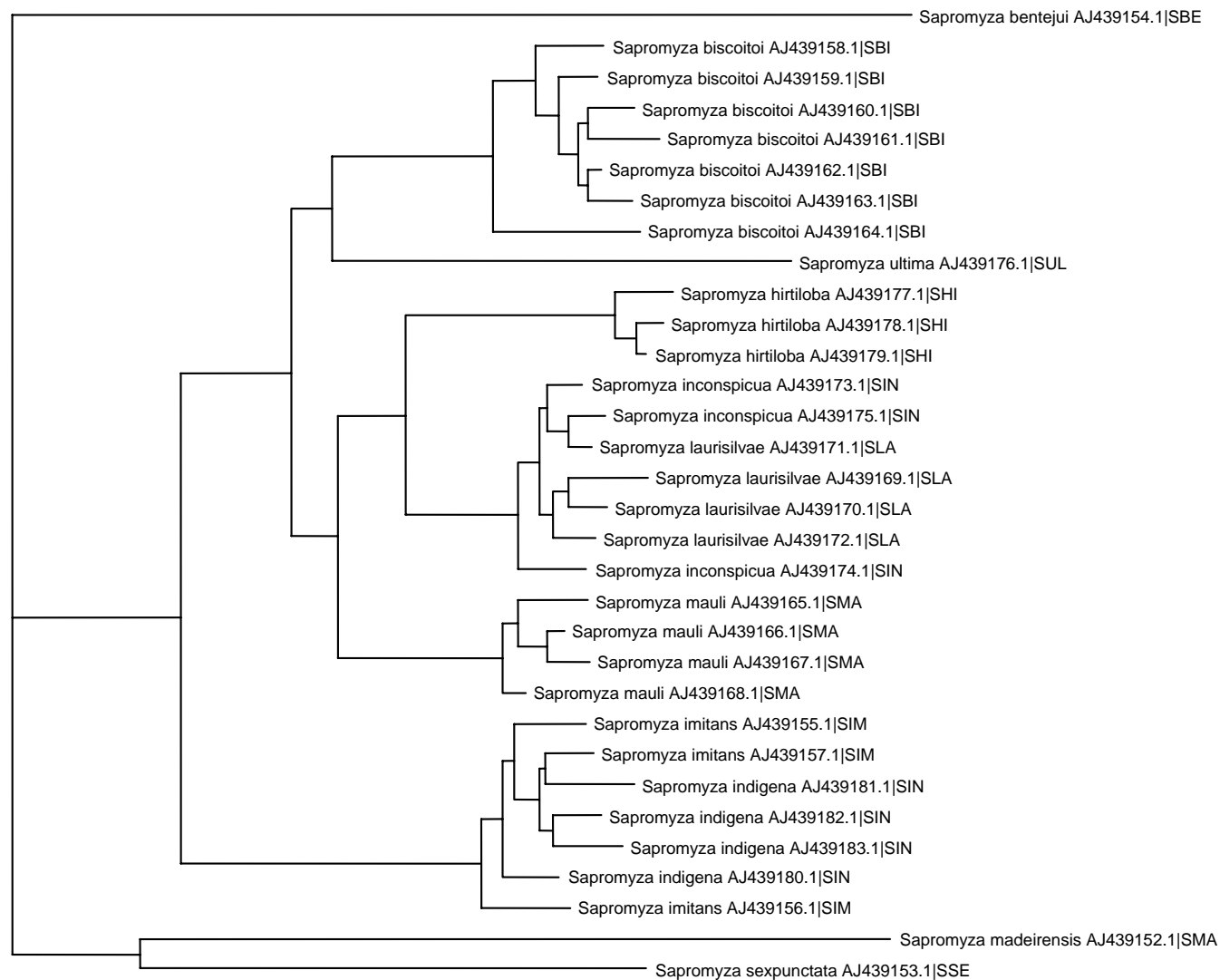


0.01 substitutions/site

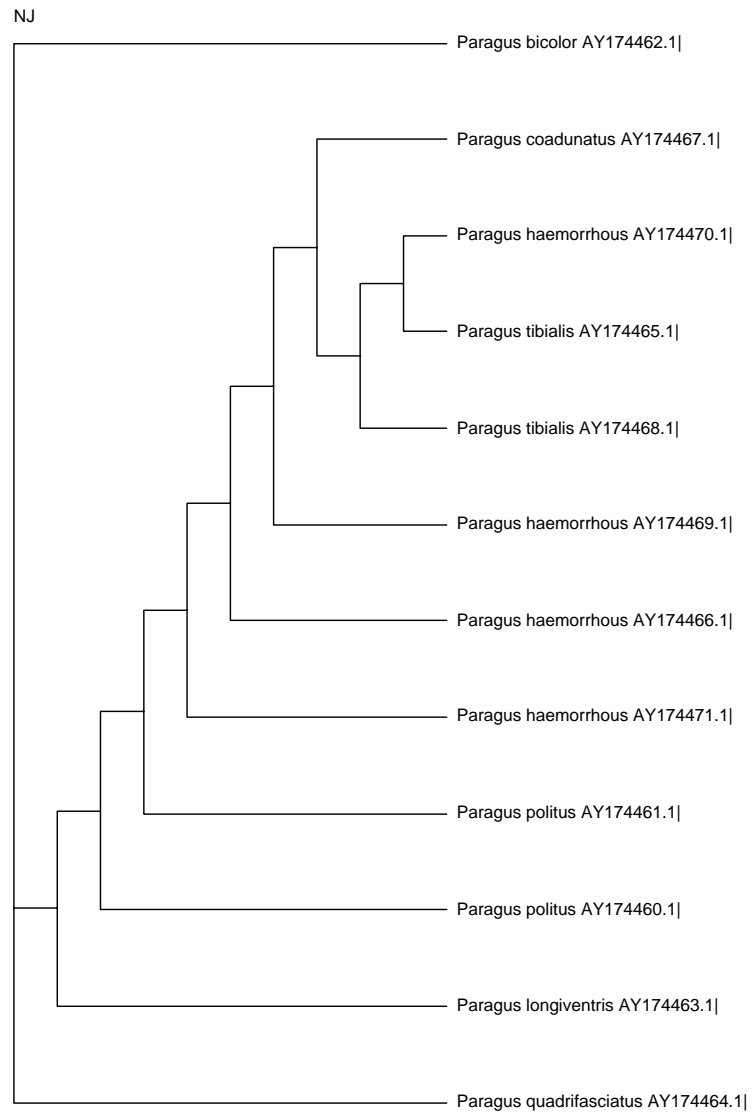
Bootstrap

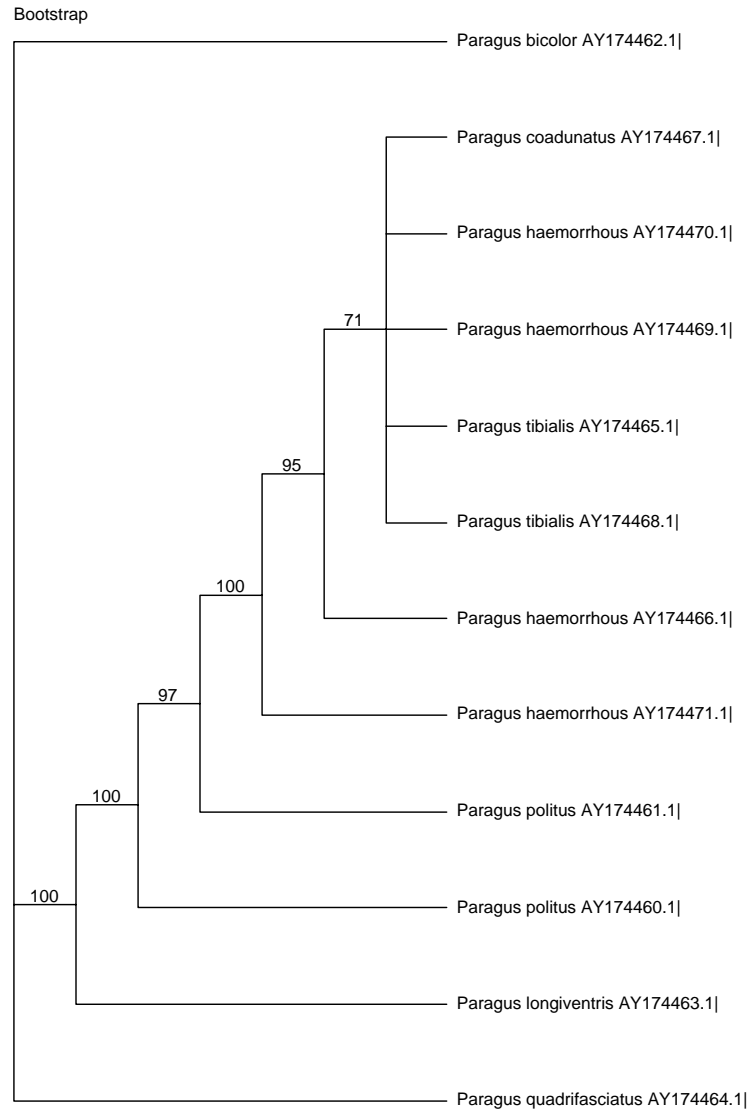


NJ

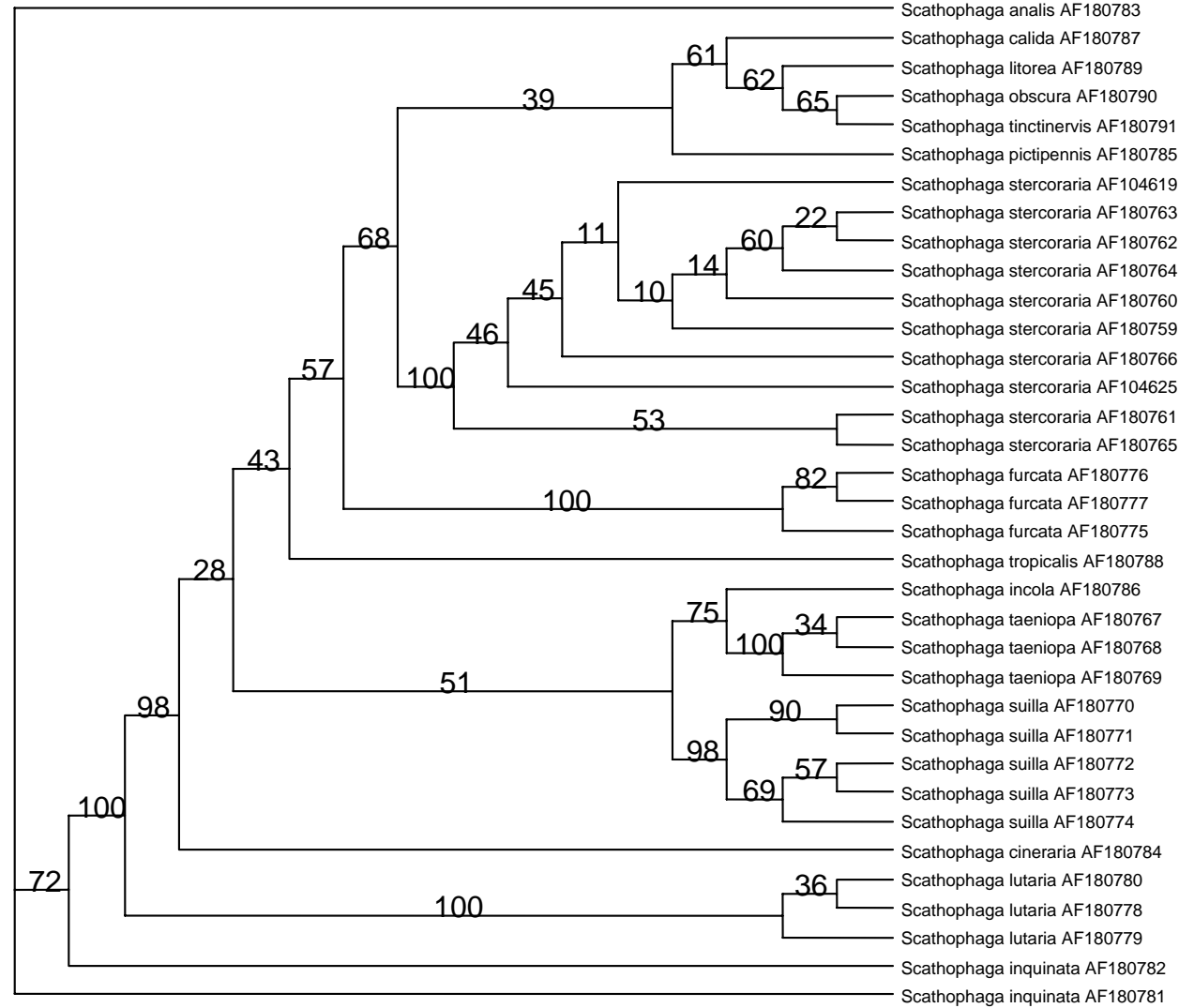


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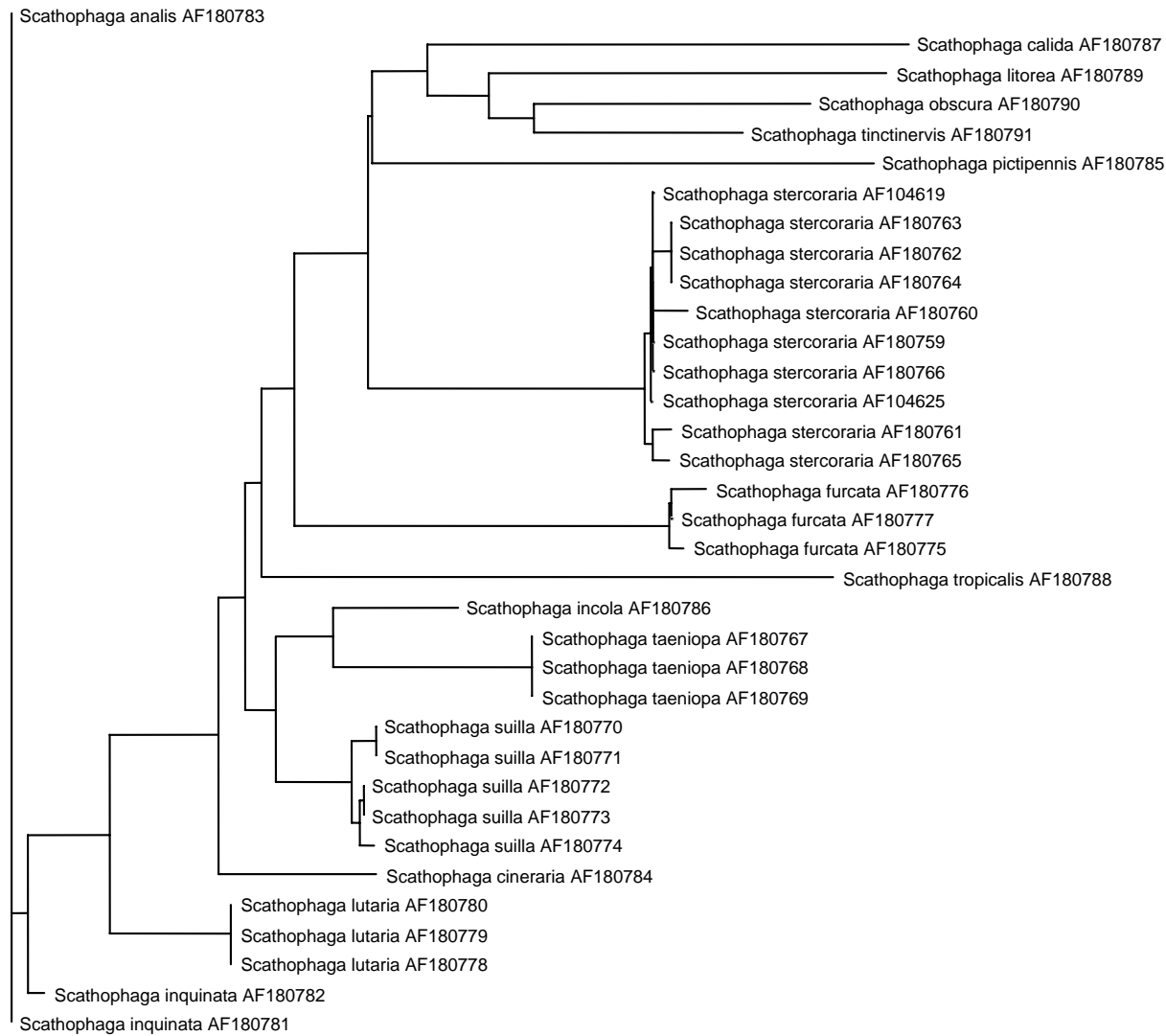




Bootstrap

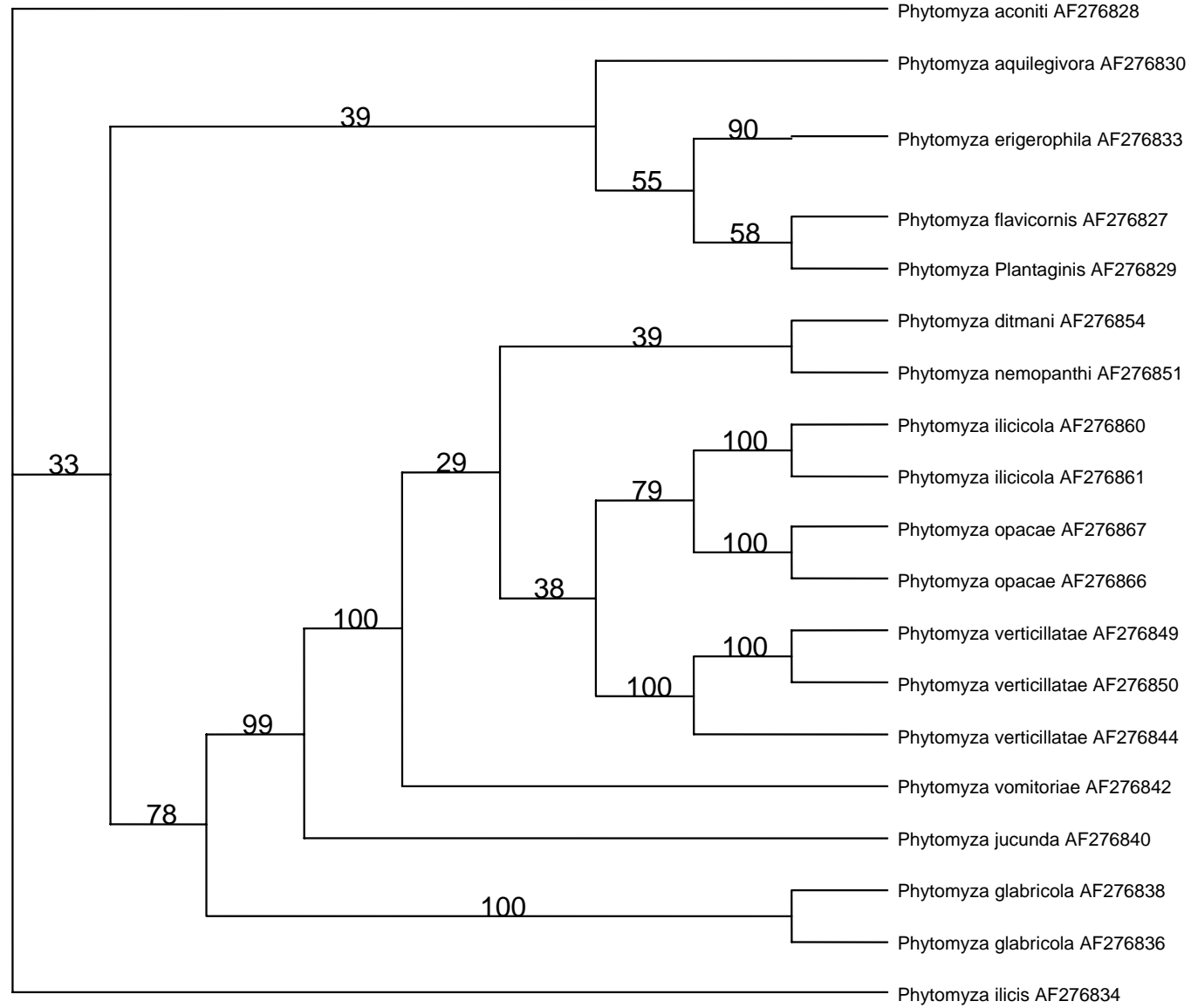


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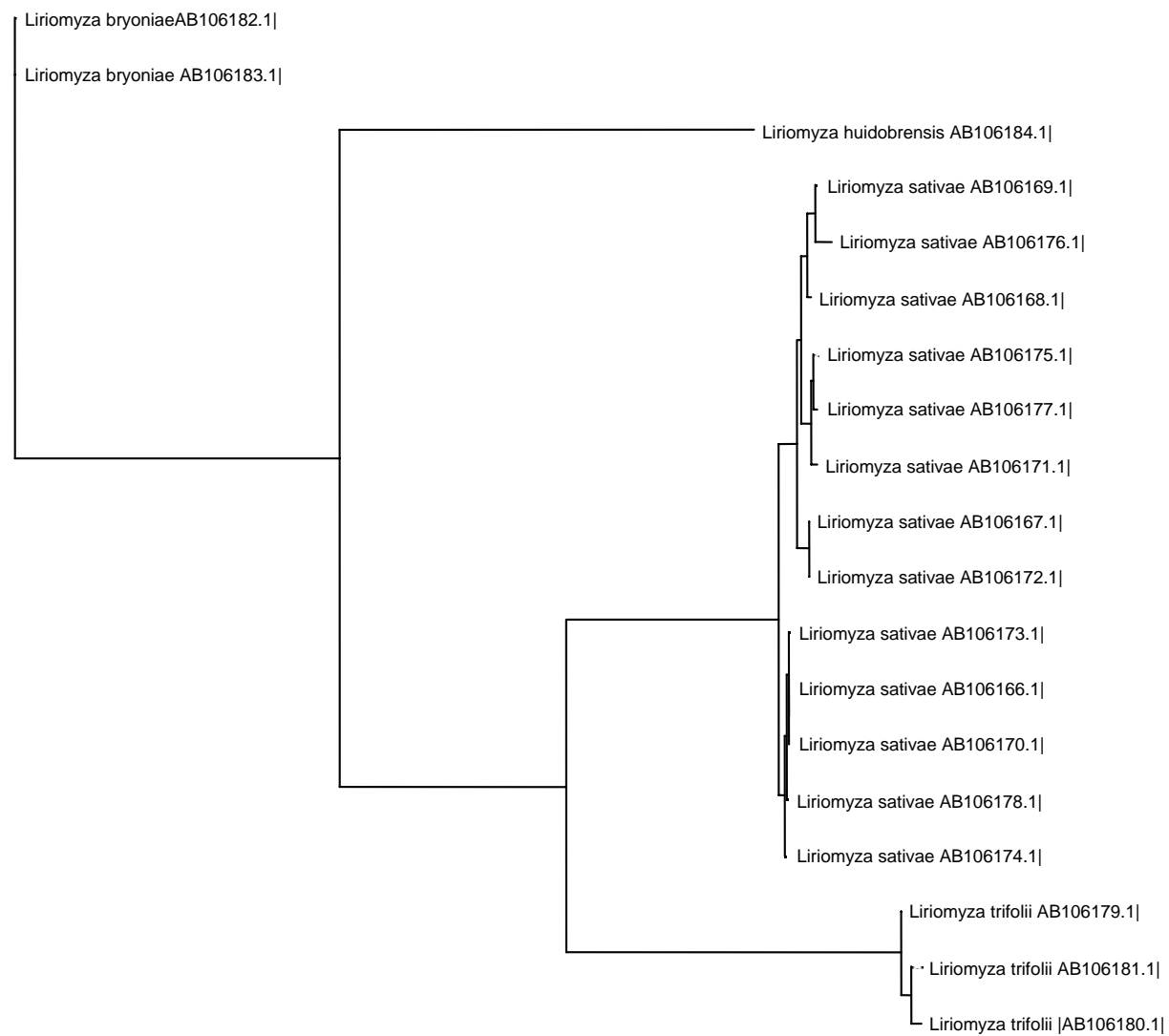


0.005 substitutions/site

Bootstrap



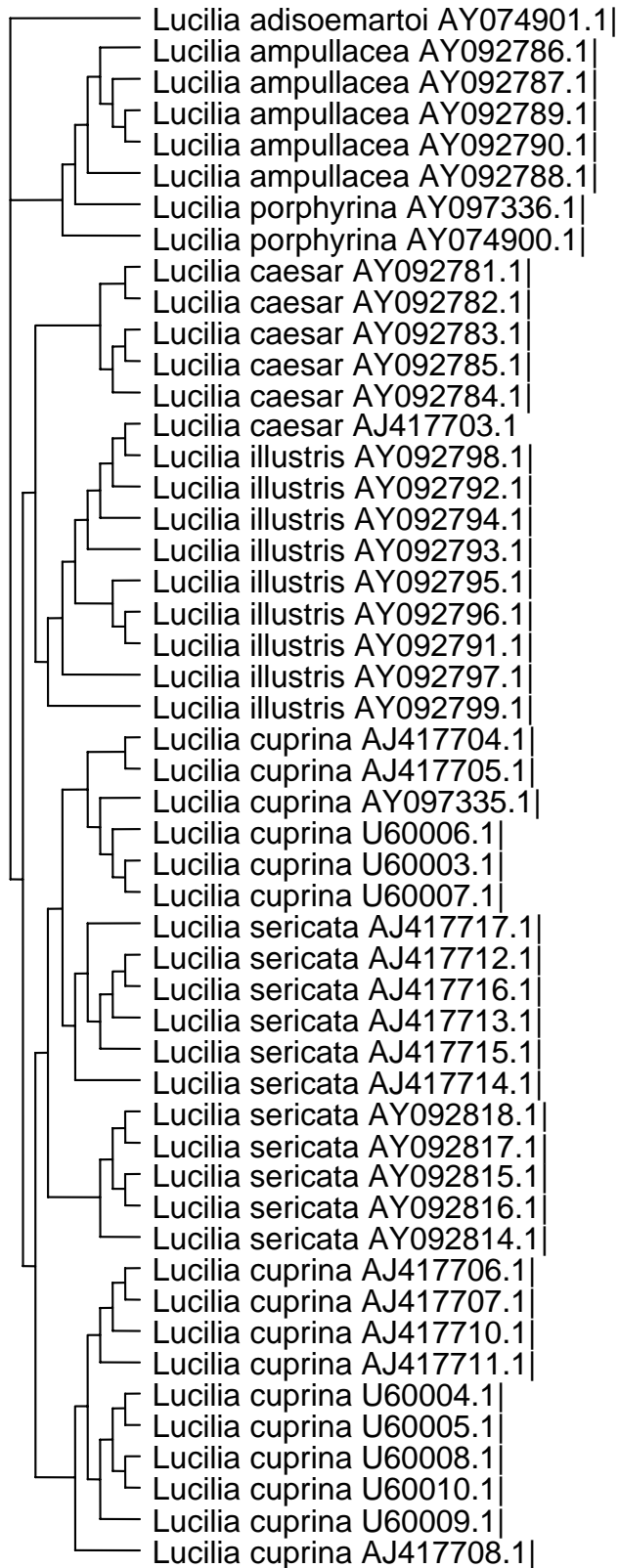
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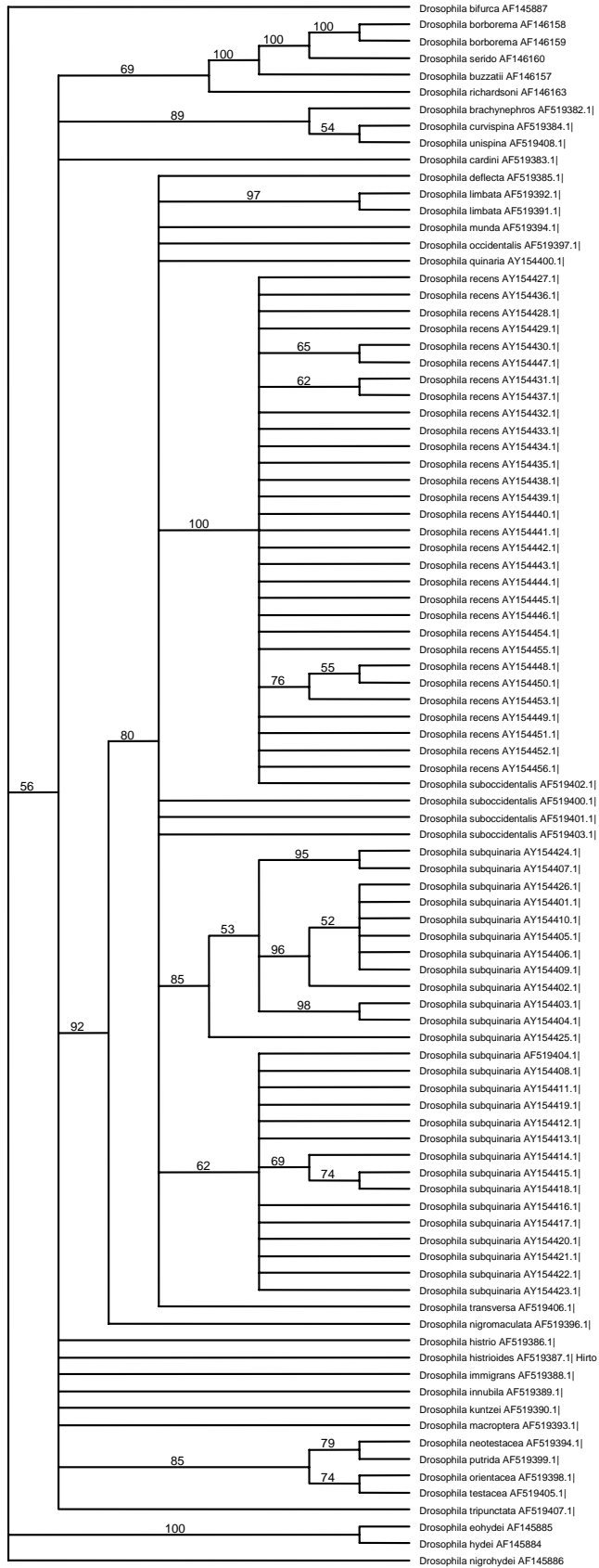
— 0.005 substitutions/site

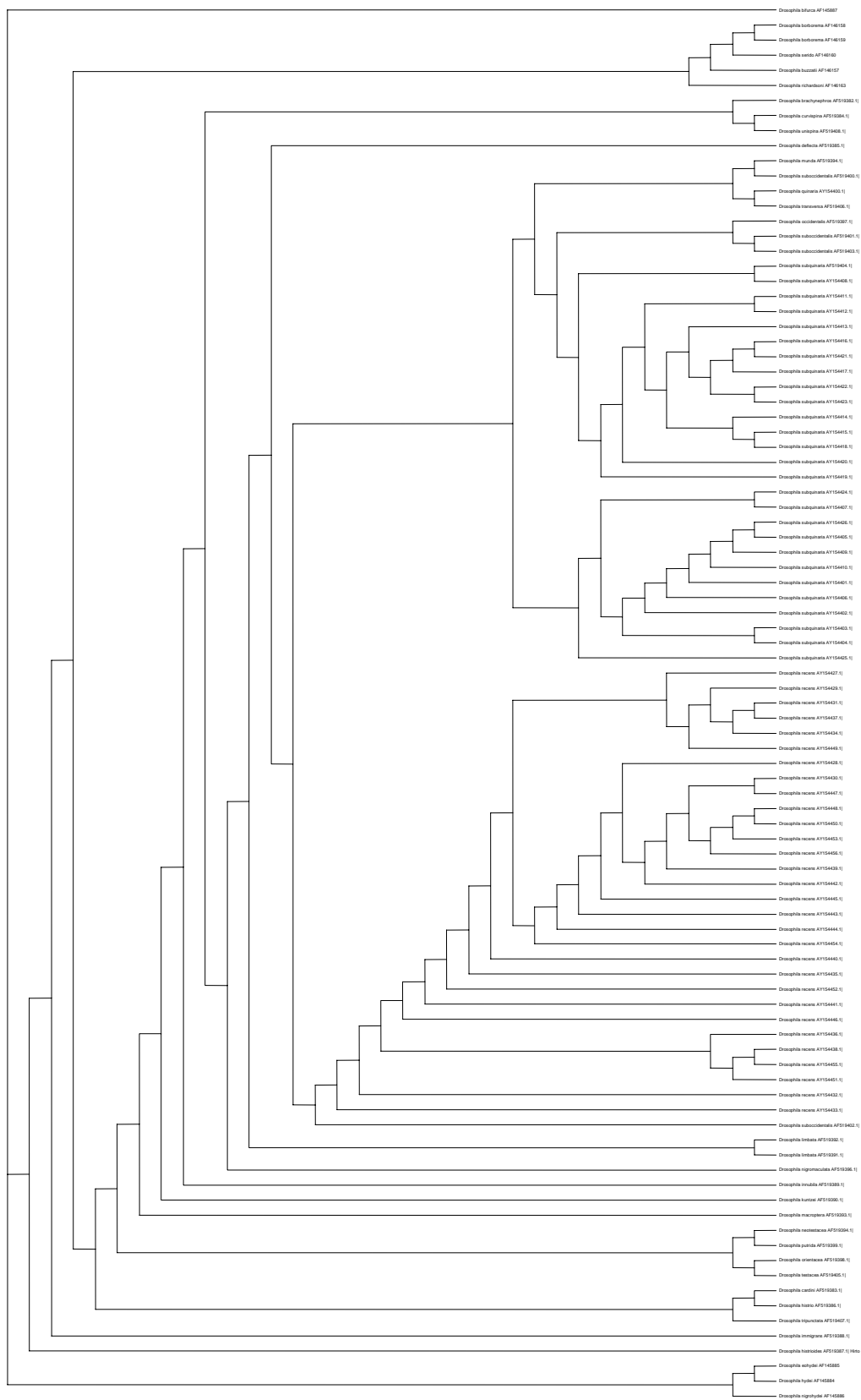
Phylogenetic tree showing the relationships between various species of the genus *Lucilia*, based on COI sequences. The tree is rooted at the top left. Bootstrap values are indicated at the nodes. The species names are listed on the right, including *Lucilia adisoemartoi*, *Lucilia ampullacea*, *Lucilia porphyryna*, *Lucilia caesar*, *Lucilia illustris*, *Lucilia cuprina*, *Lucilia sericata*, and *Lucilia silvatica*.

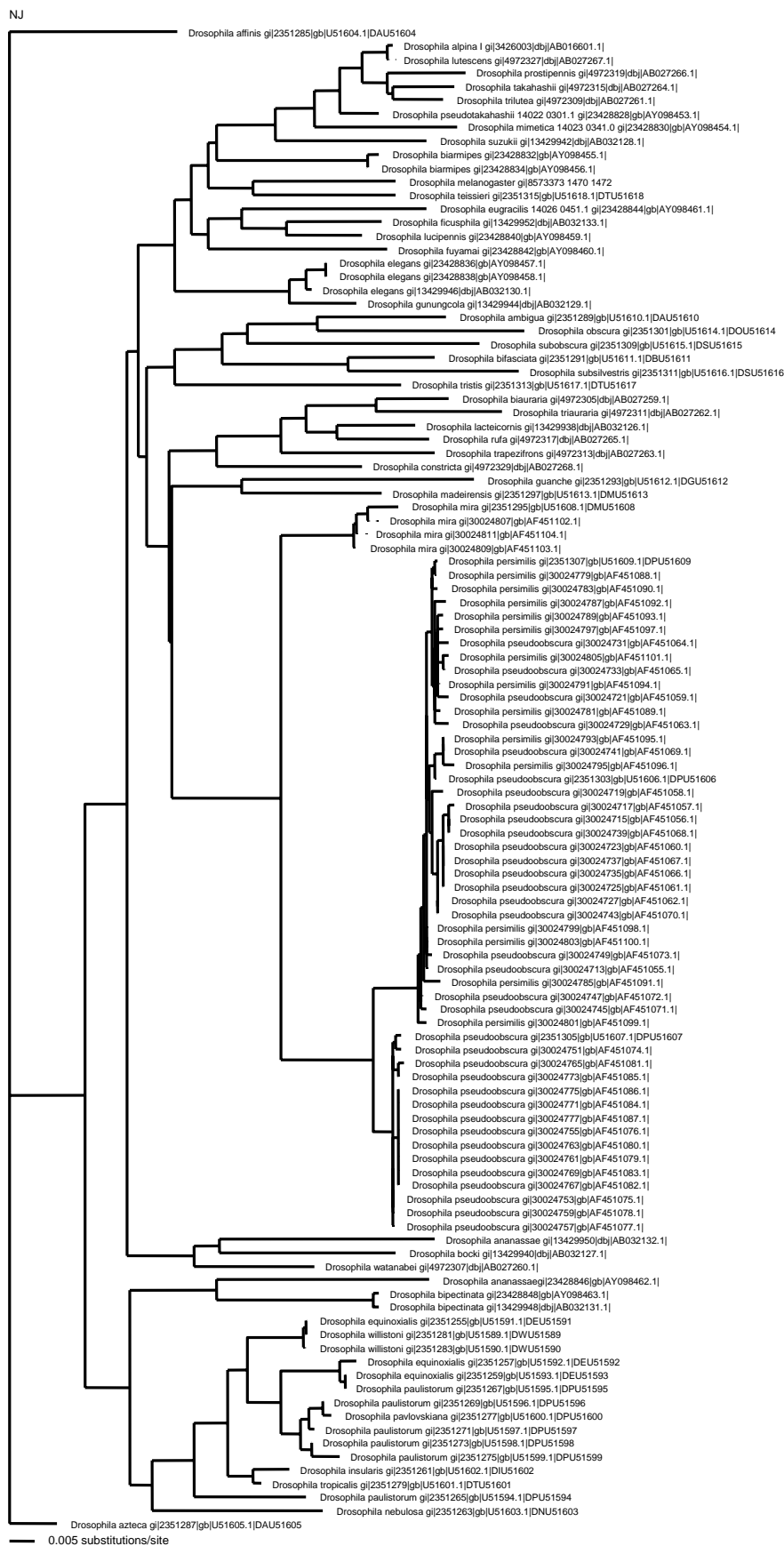
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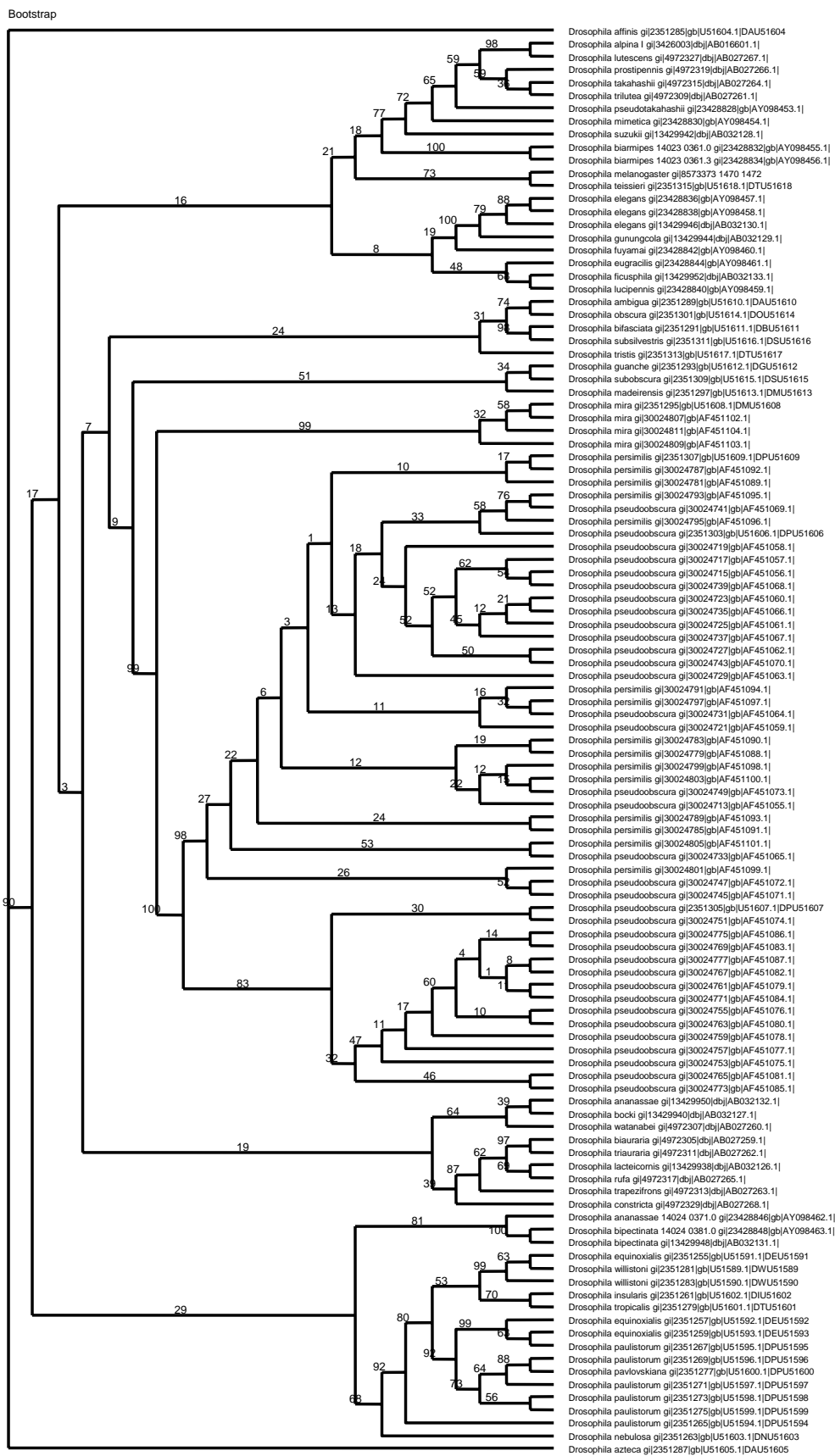


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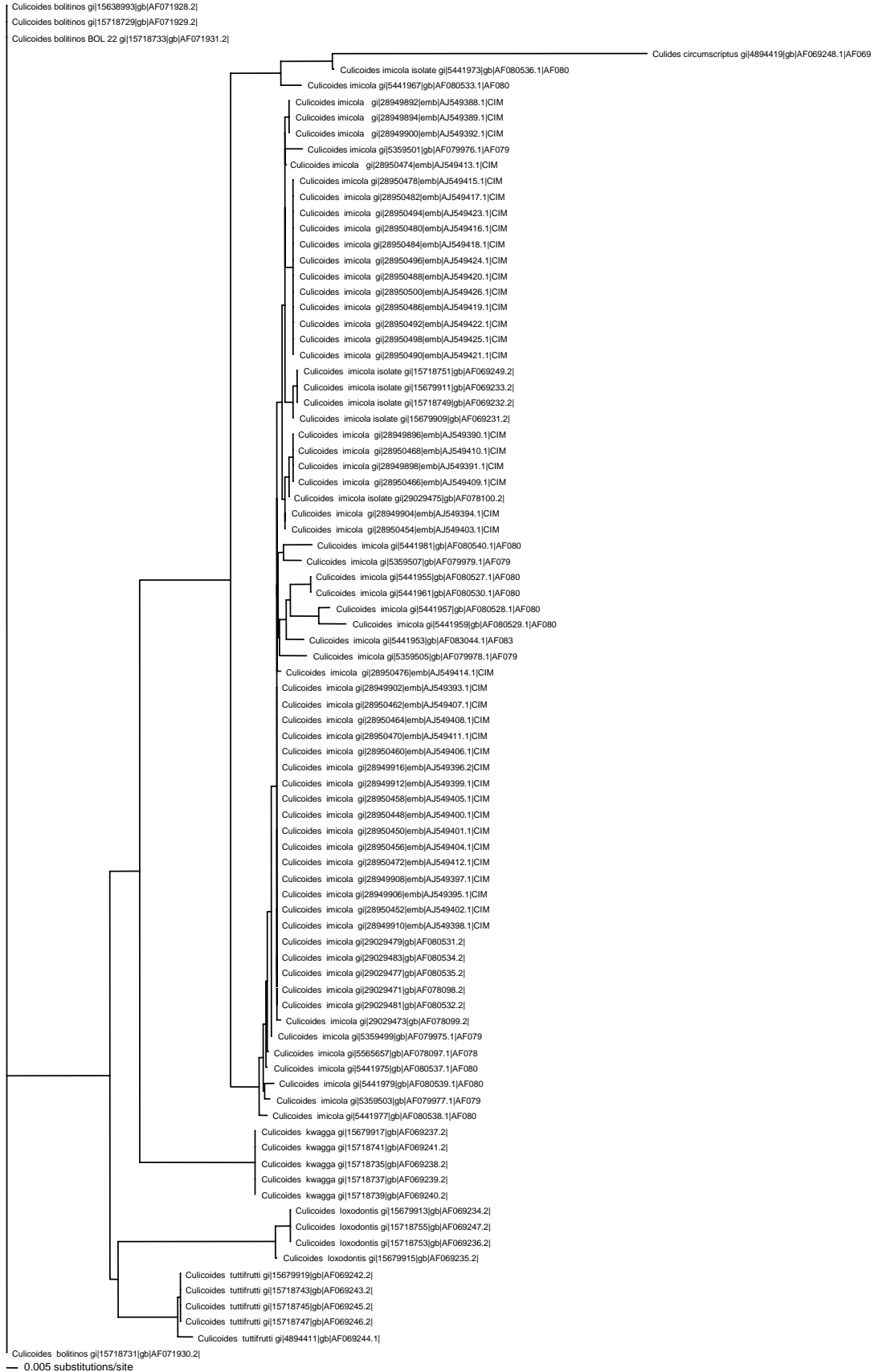


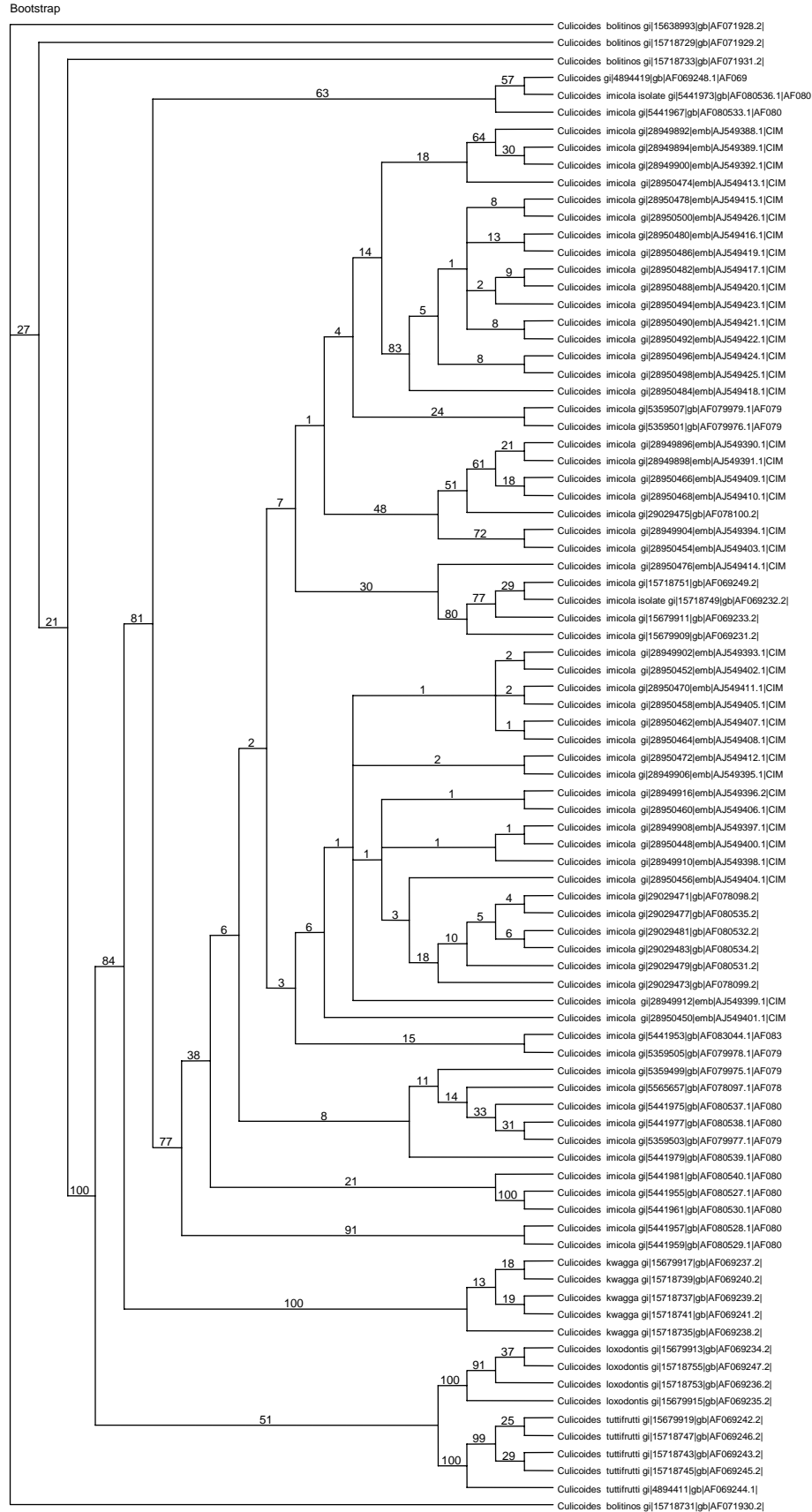




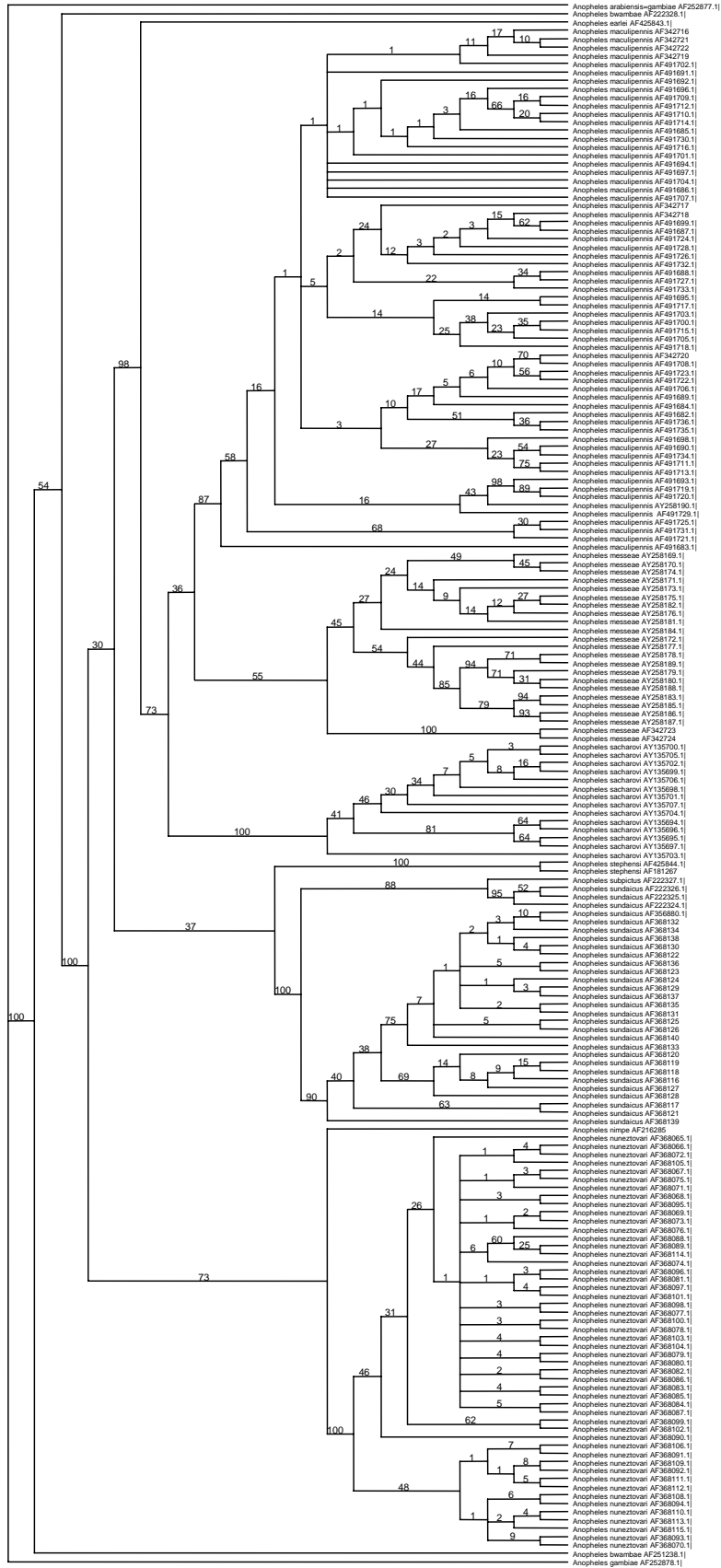


NJ





Bootstrap



Anopheles arabiensis-gambiae AF252877.1|
 └─ Anopheles bwambiae AF222328.1|
 └─ Anopheles bwambiae AF251238.1|