

Figure S1. Phylogenetic tree of the 75% occupancy data set generated from the combined probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

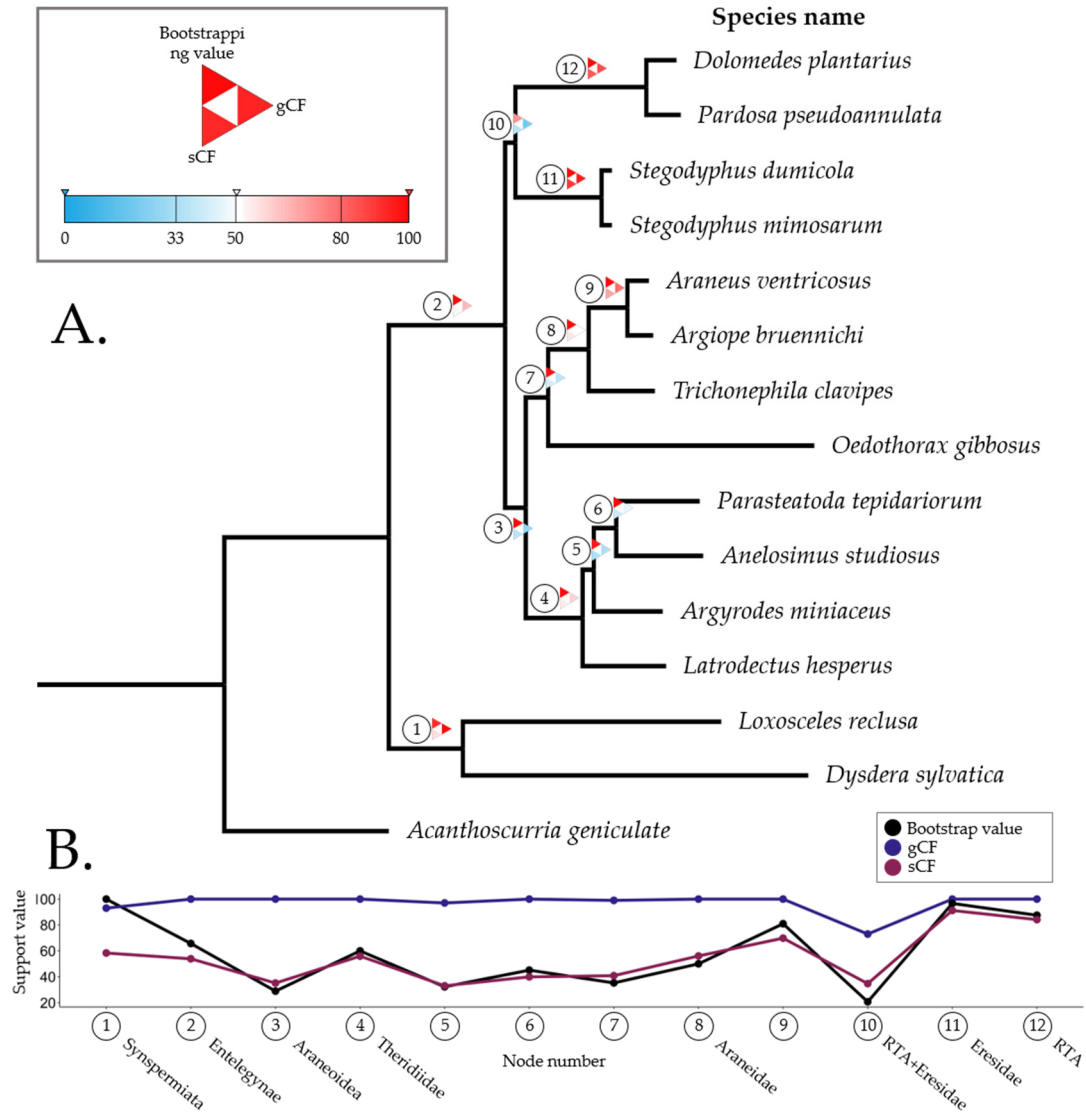


Figure S2. Phylogenetic tree of the 50% occupancy data set generated from the Arachnid probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

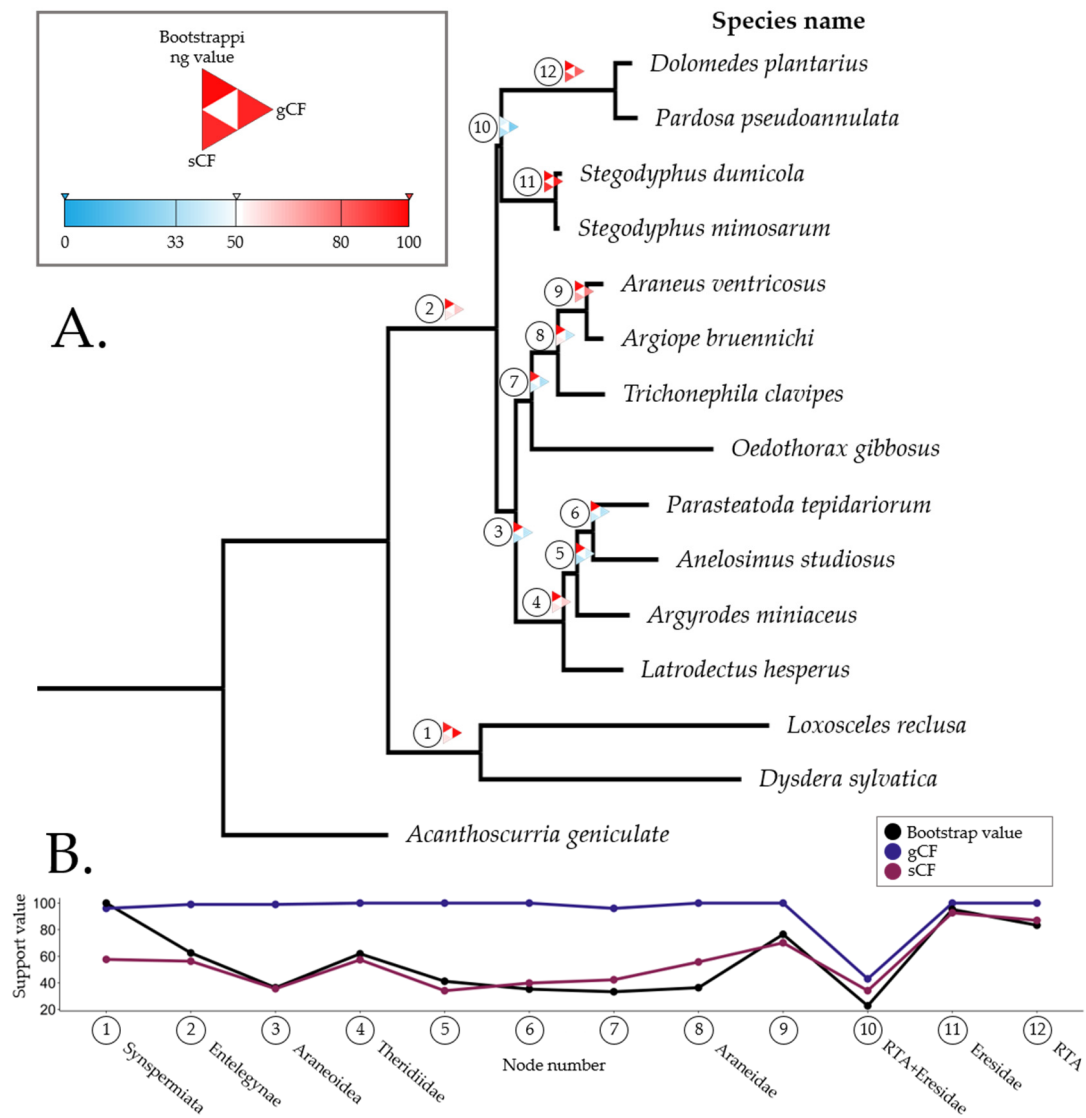


Figure S3. Phylogenetic tree of the 75% occupancy data set generated from the Arachnid probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

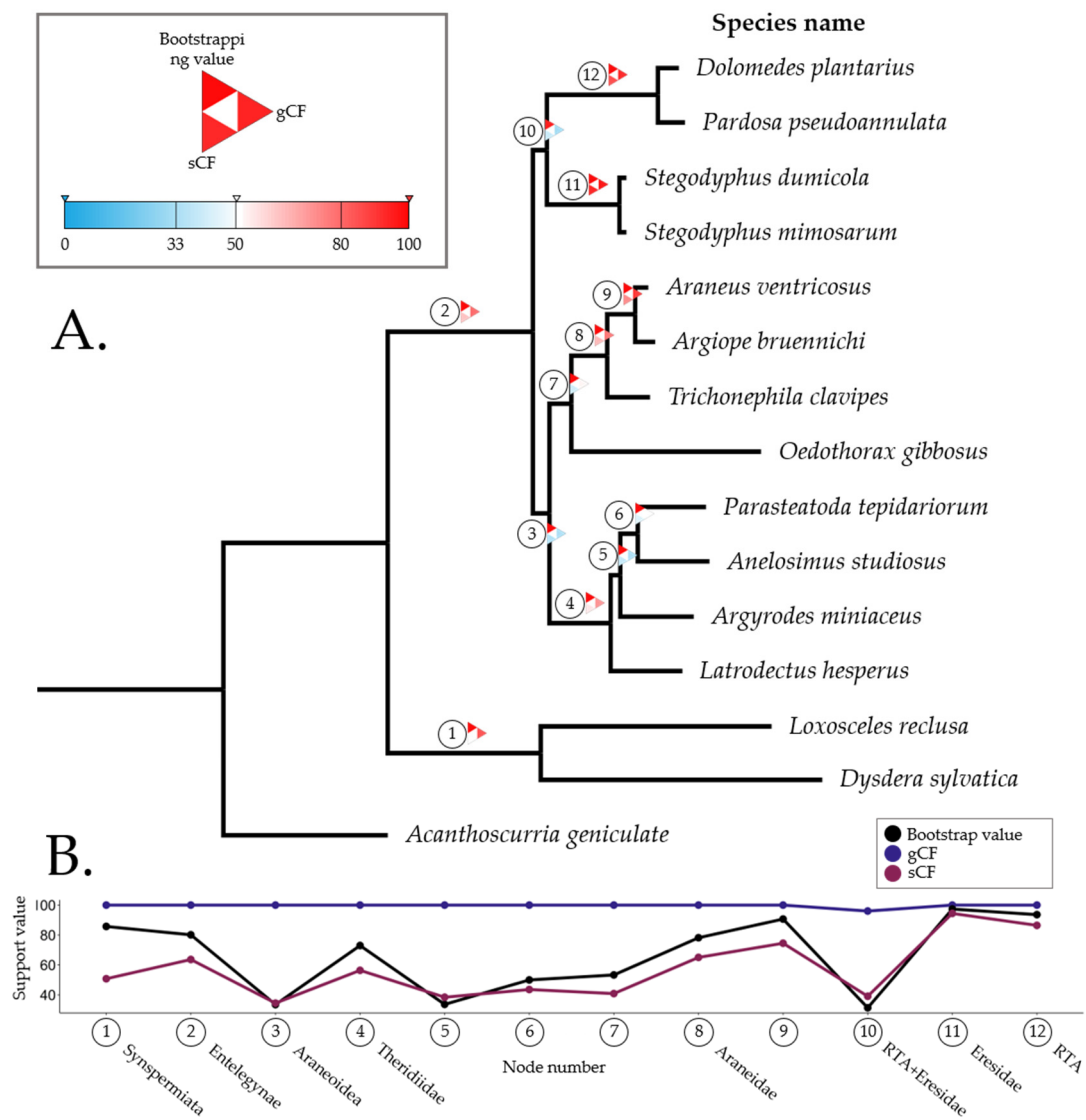


Figure S4. Phylogenetic tree of the 50% occupancy data set generated from the Araneae probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

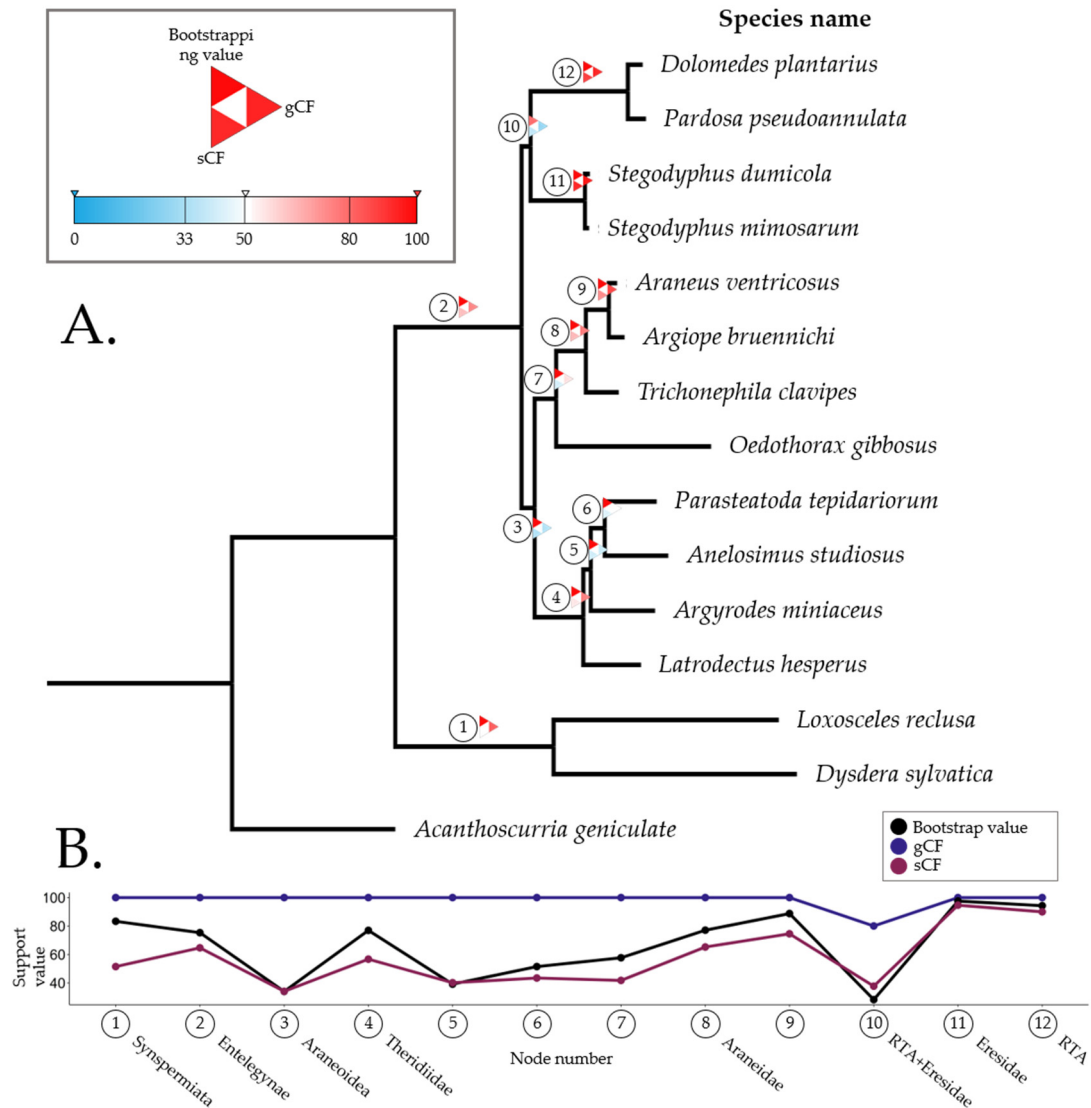


Figure S5. Phylogenetic tree of the 75% occupancy data set generated from the Araneae probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

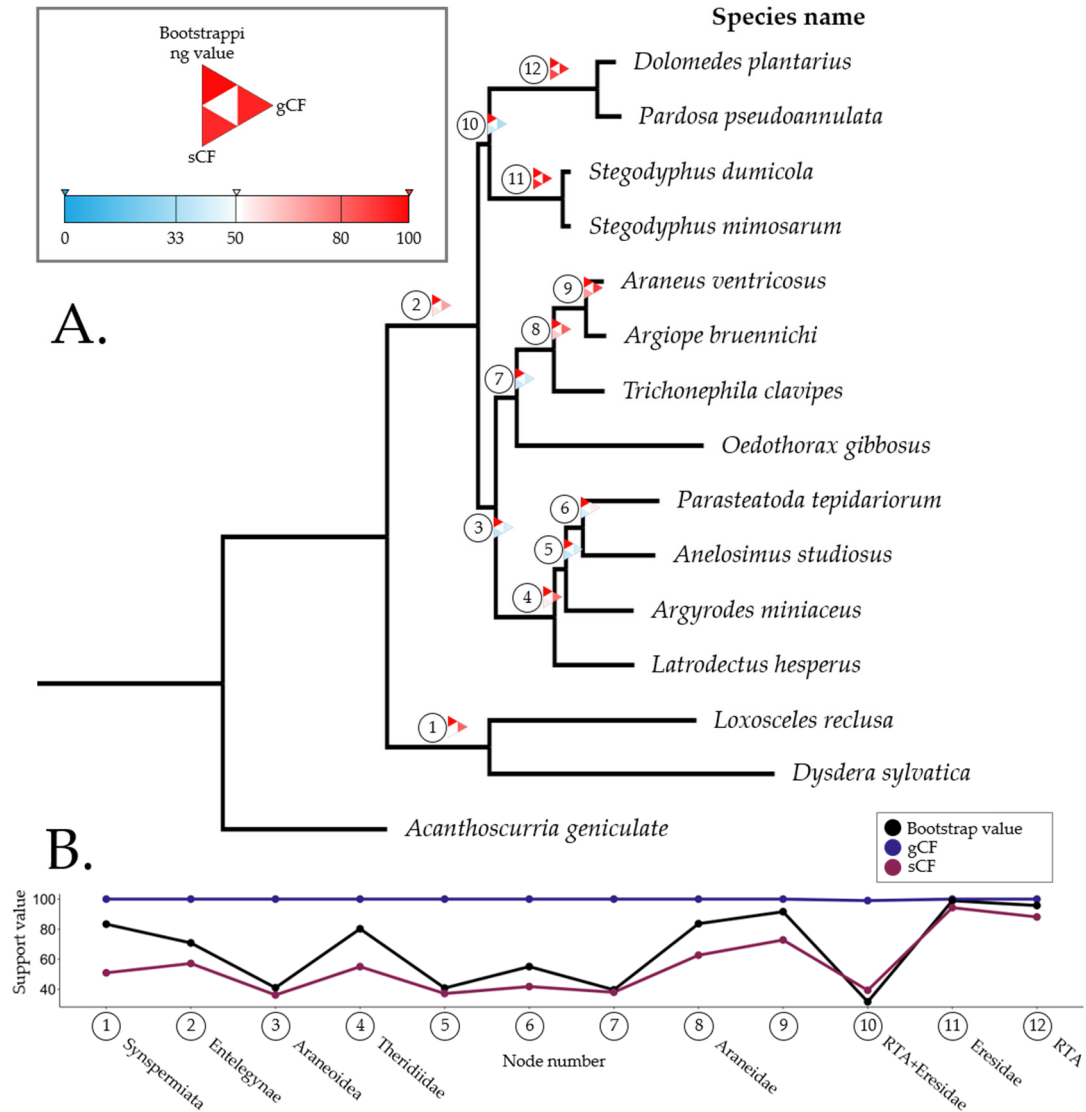


Figure S6. Phylogenetic tree of the 50% occupancy data set generated from the Araneioidea probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.

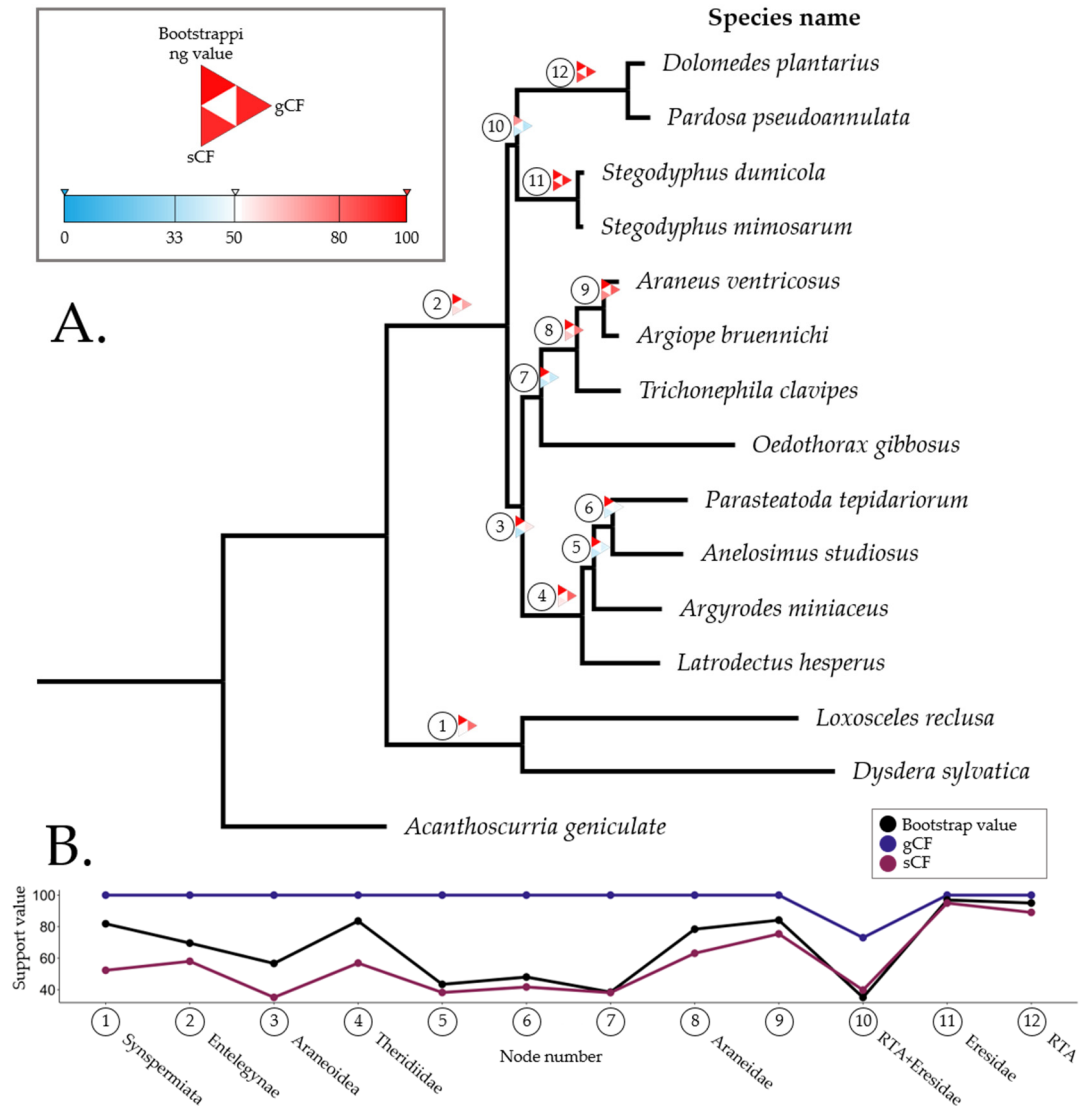


Figure S7. Phylogenetic tree of the 75% occupancy data set generated from the Araneioidea probe set. **A.** Tree topology using IQtree. Colors in triangles represent three type of support values, bootstrap values, gCFs, and sCFs, and the dash lines display the loci numbers used in tree reconstruction. **B.** Support values of different nodes on the tree.