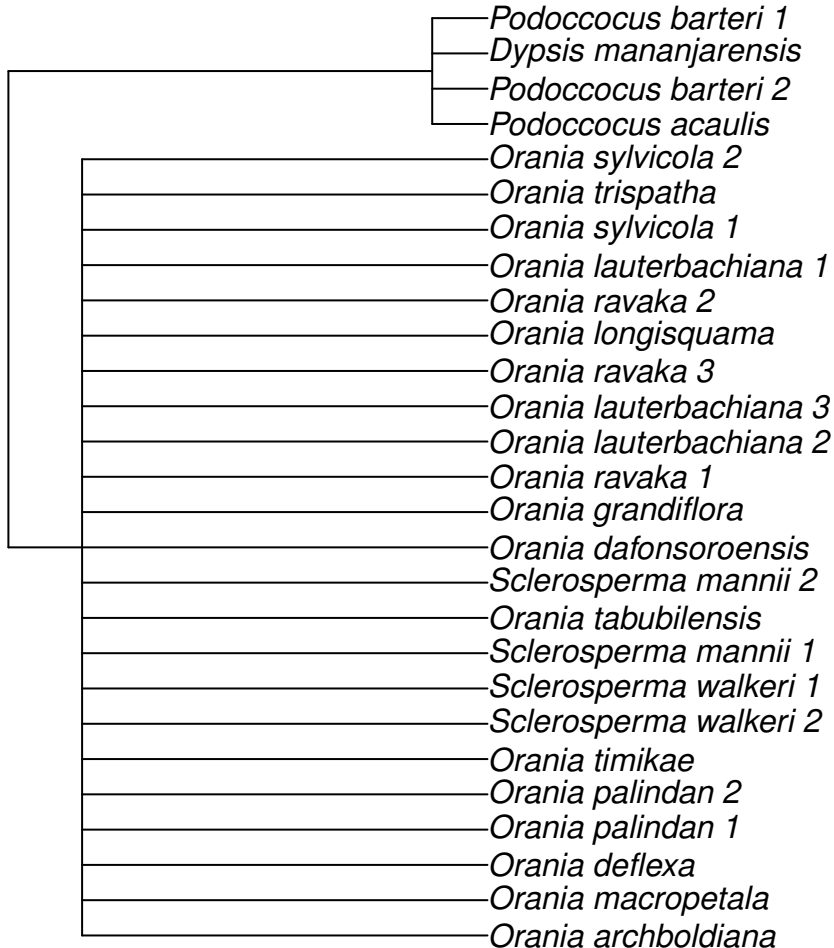
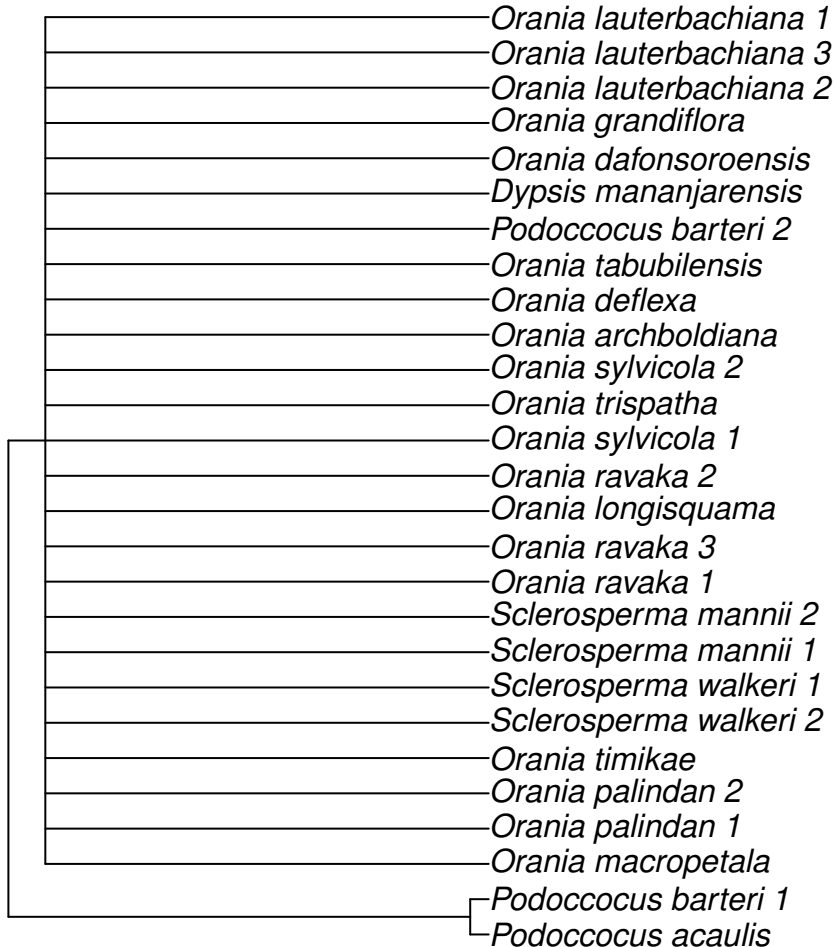


Figures S3: Each figure corresponds to one node: Top alternative topology at corresponding node generated with PhyParts. Node numbers correspond to the node numbers on the phylogeny in Figure S2. The number of agreeing gene trees with this alternative topology corresponds to the orange part of the pie chart in Figure 1b and Figure S2.

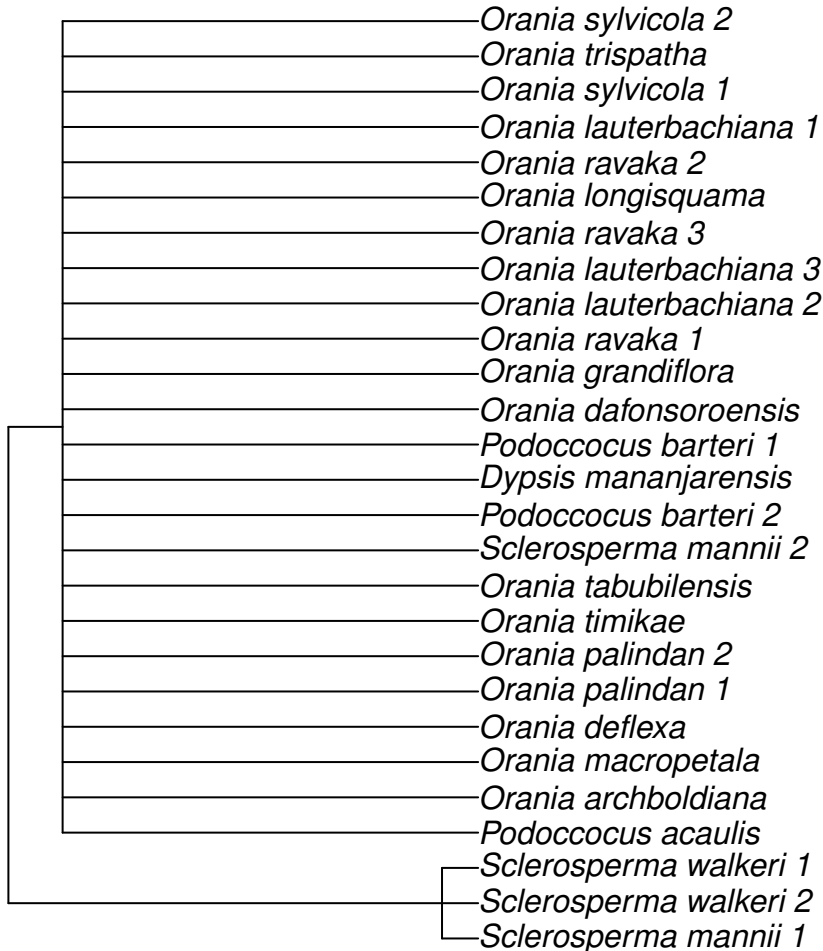
**First alternative topology for node 1.
Number of agreeing gene trees: 17**



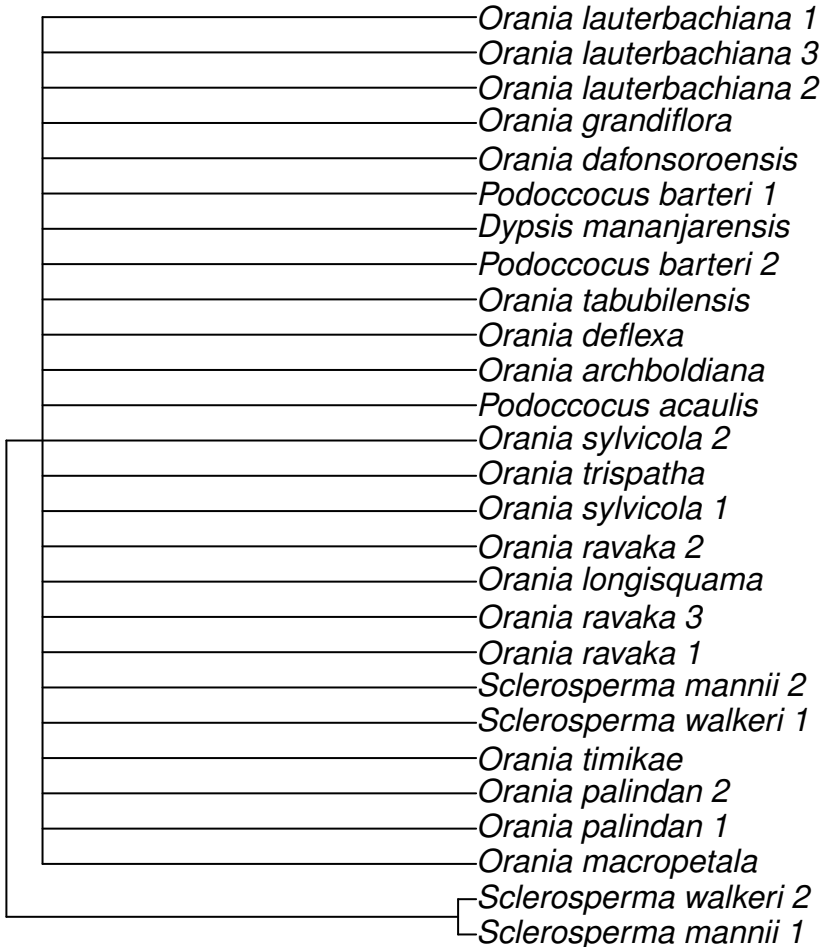
First alternative topology for node 3.
Number of agreeing gene trees: 13



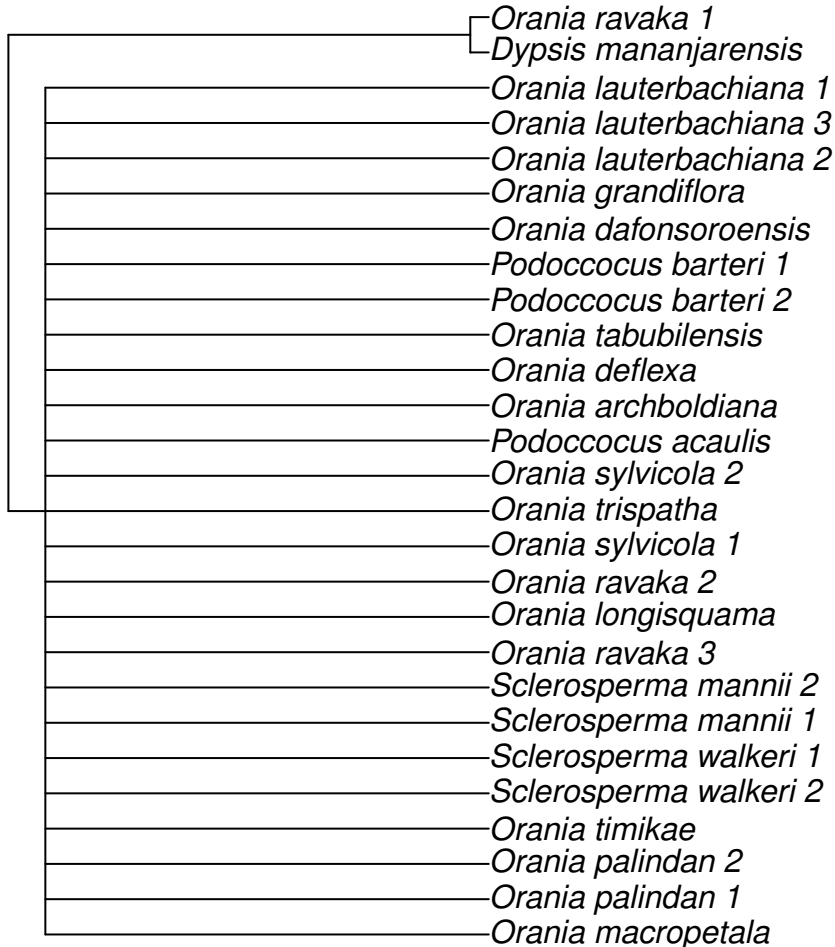
First alternative topology for node 5.
Number of agreeing gene trees: 10



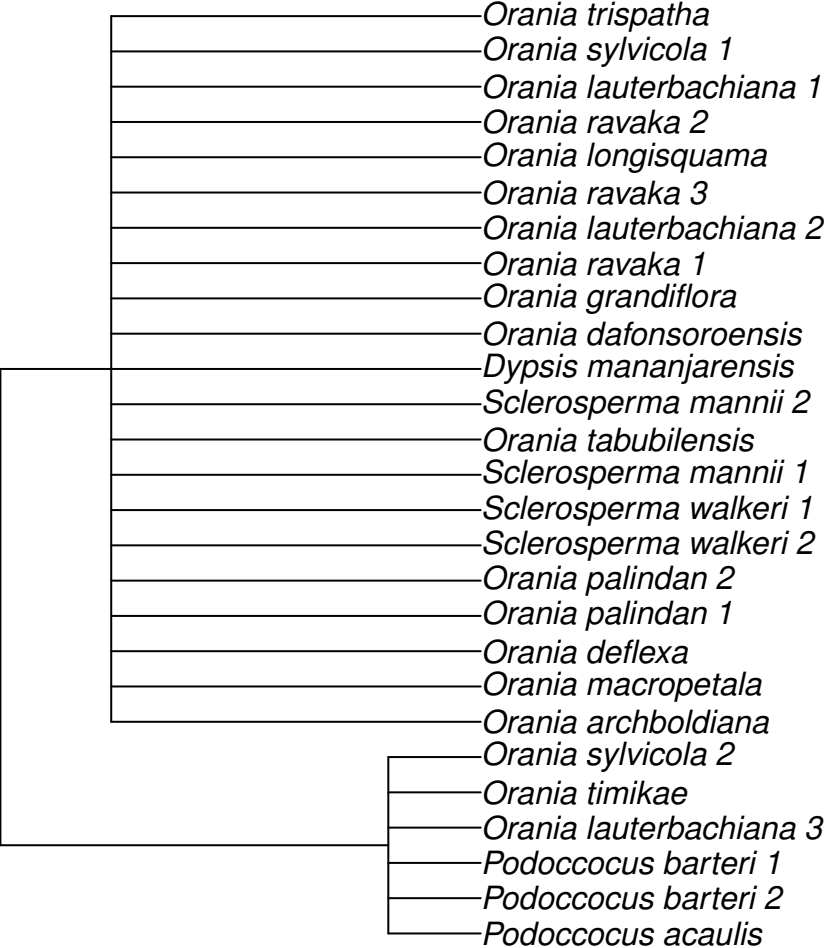
First alternative topology for node 6.
Number of agreeing gene trees: 9



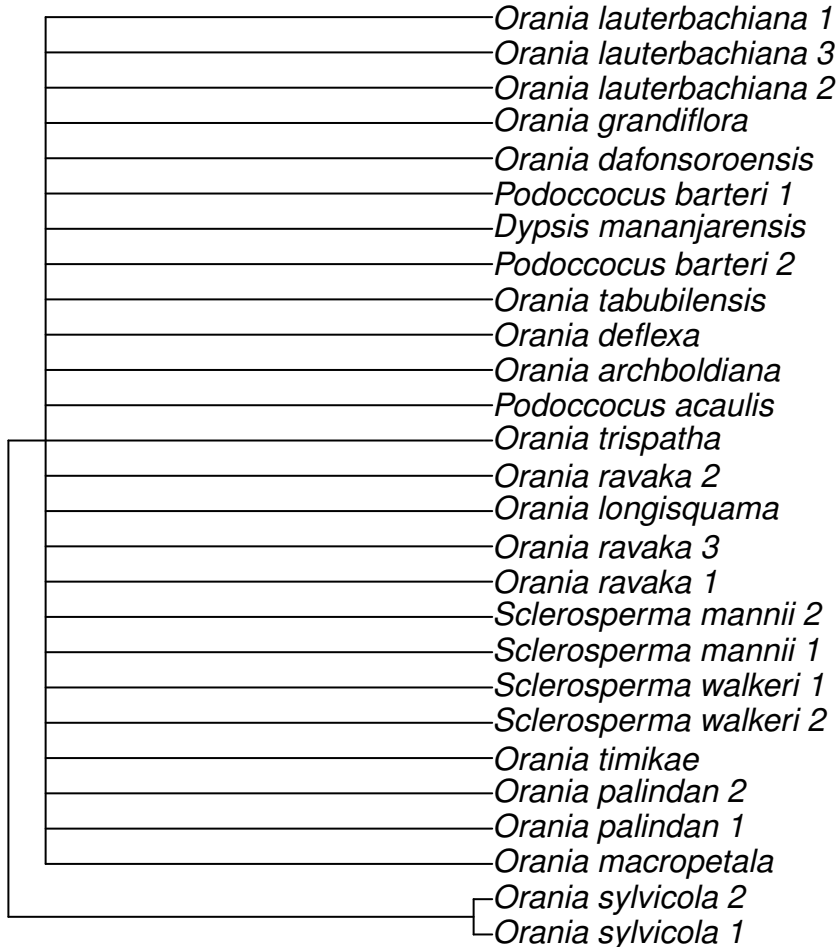
First alternative topology for node 7.
Number of agreeing gene trees: 5



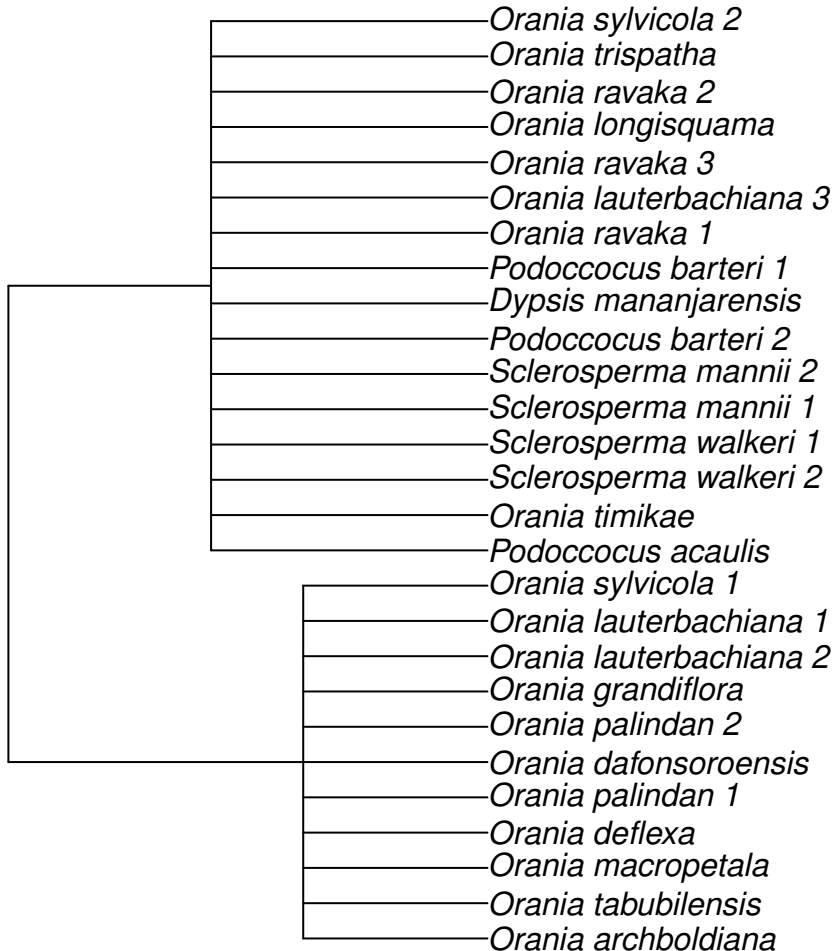
First alternative topology for node 8.
Number of agreeing gene trees: 1



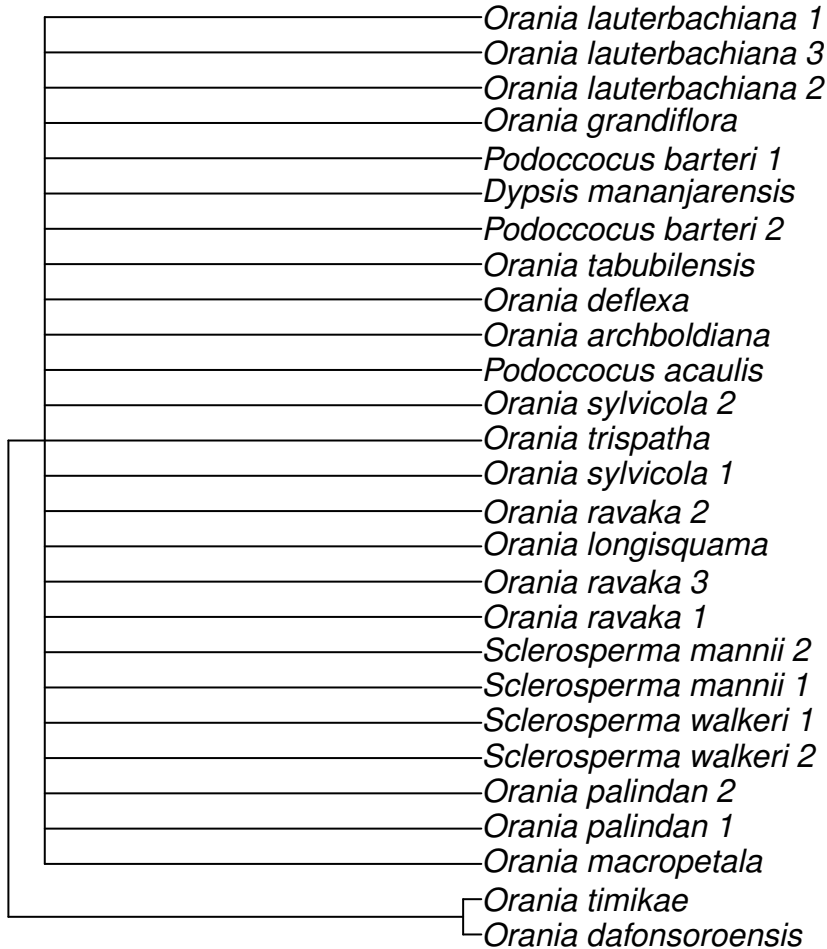
First alternative topology for node 9.
Number of agreeing gene trees: 9



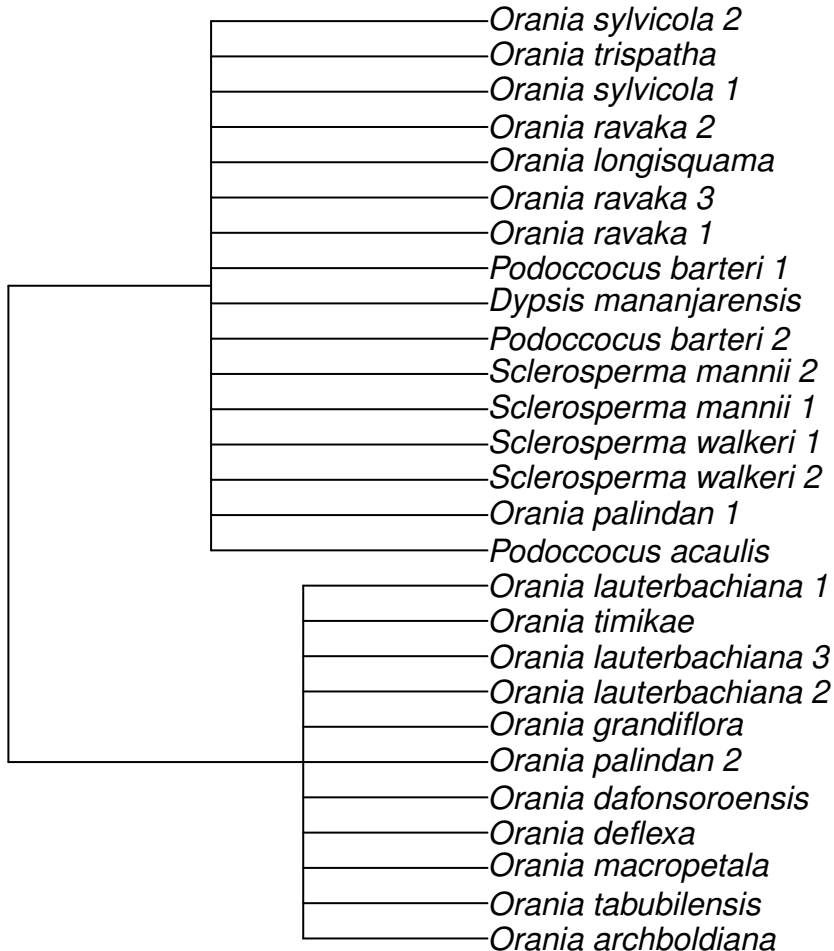
First alternative topology for node 10.
Number of agreeing gene trees: 1



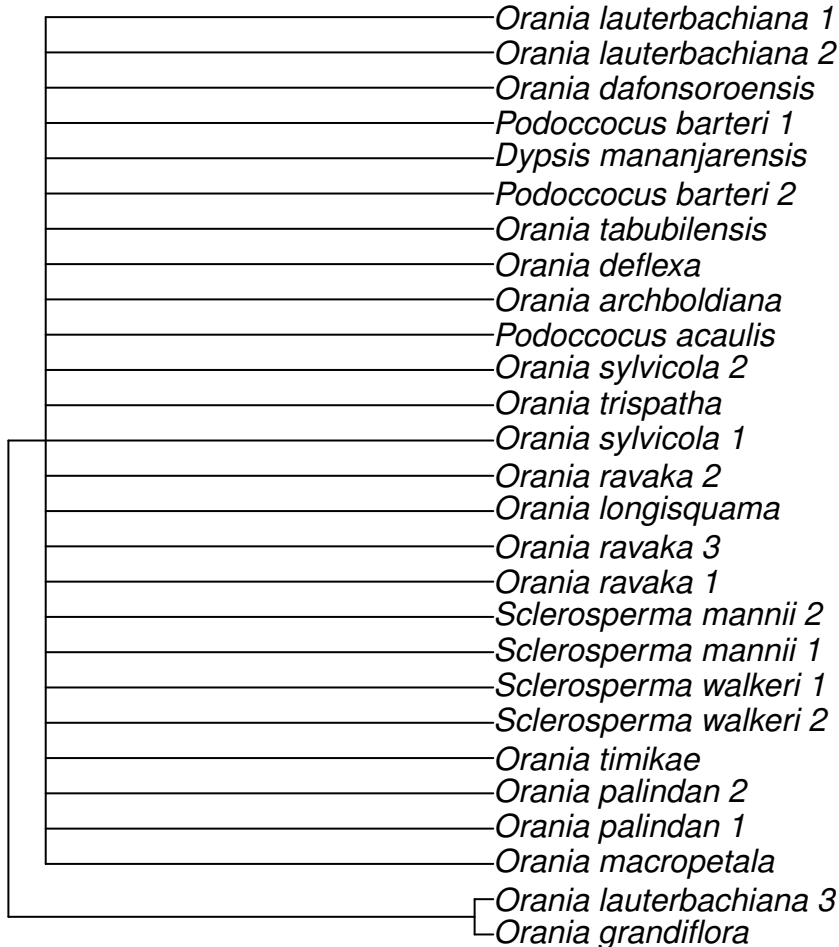
First alternative topology for node 11.
Number of agreeing gene trees: 4



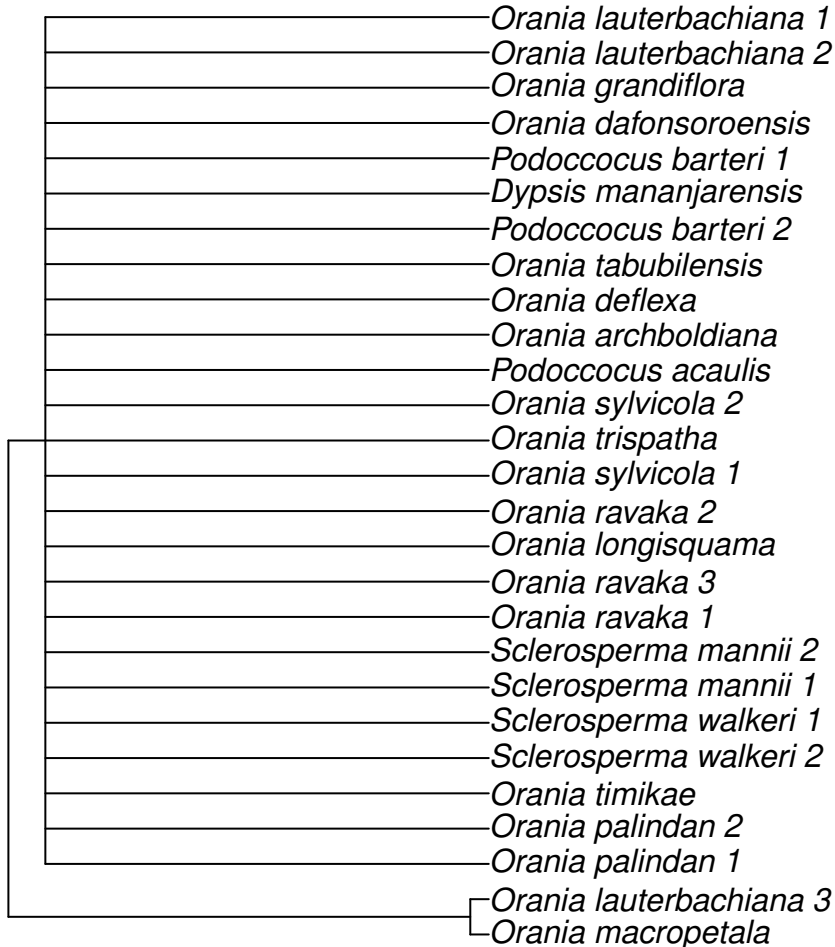
First alternative topology for node 12.
Number of agreeing gene trees: 4



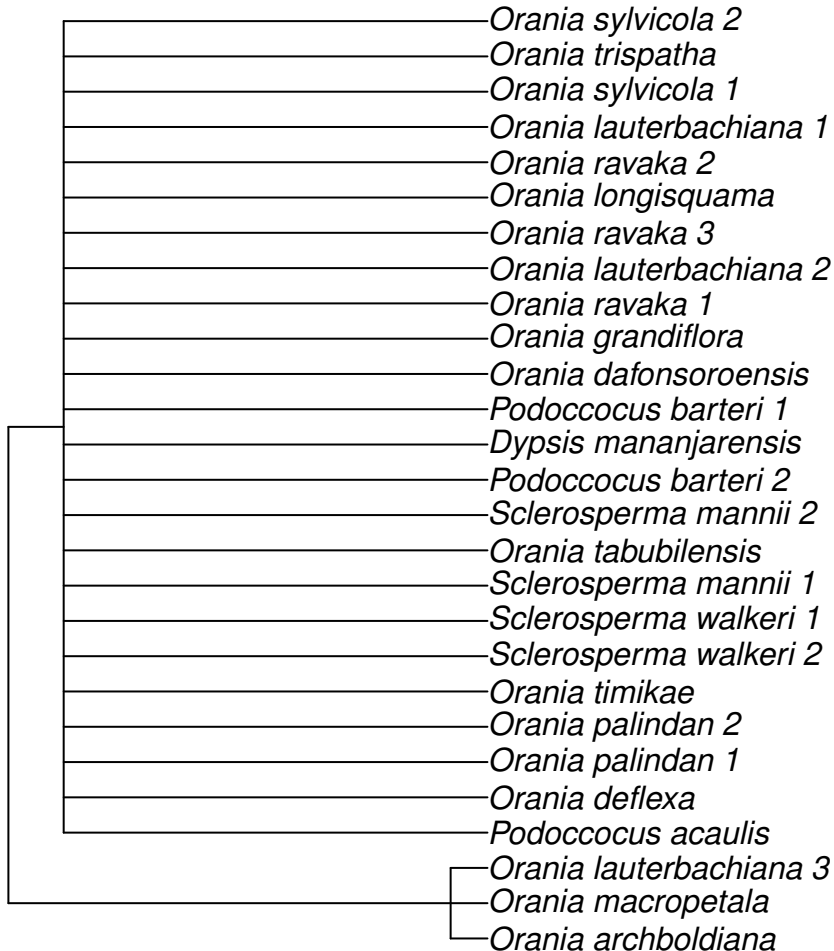
First alternative topology for node 13.
Number of agreeing gene trees: 3



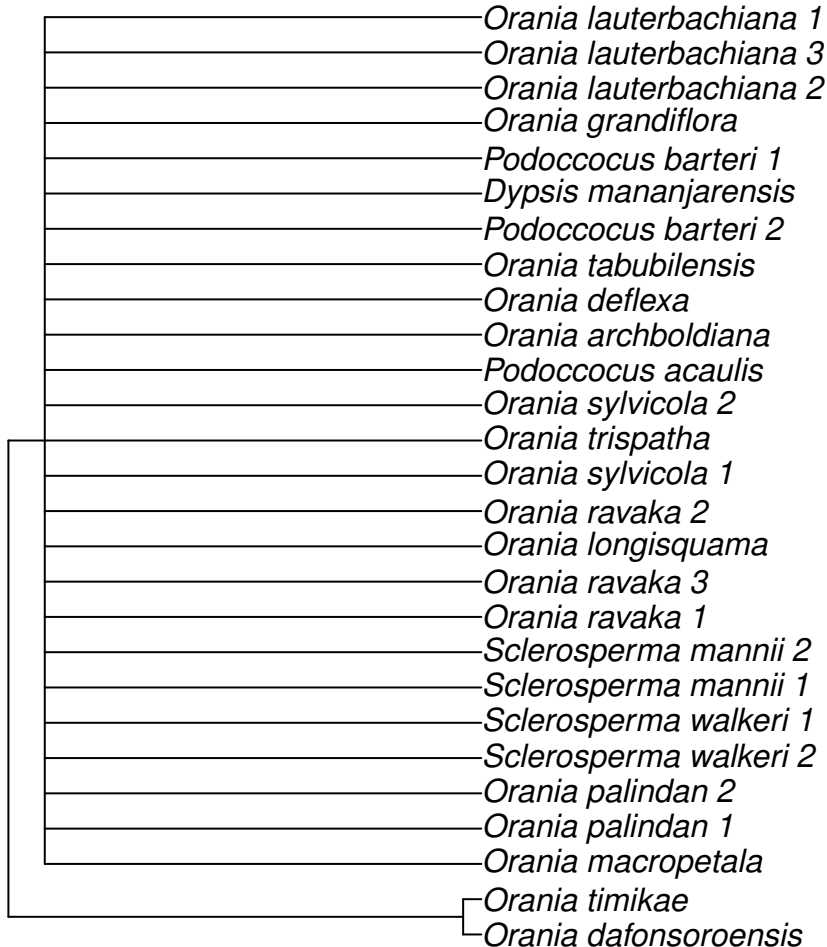
First alternative topology for node 14.
Number of agreeing gene trees: 3



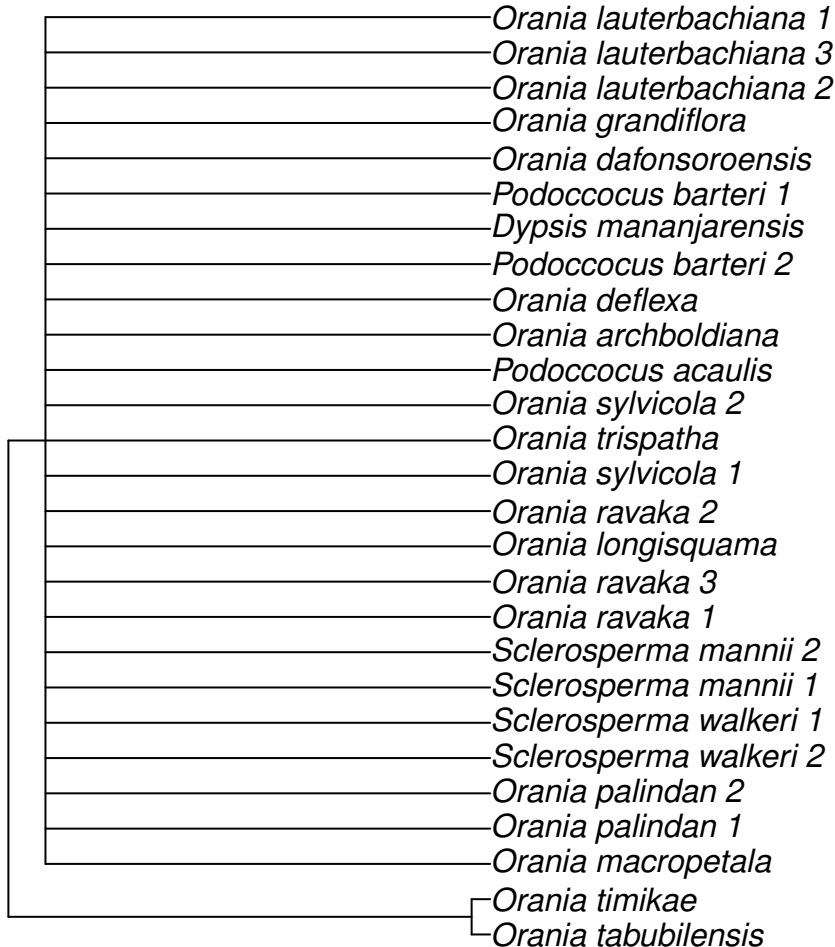
First alternative topology for node 15.
Number of agreeing gene trees: 4



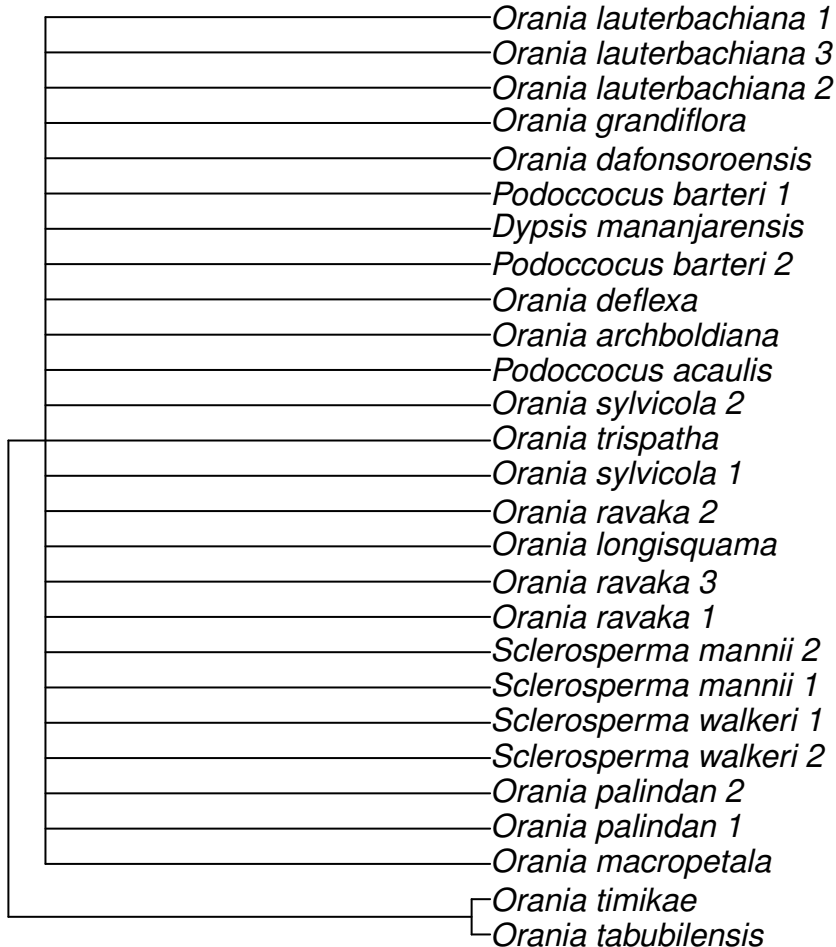
First alternative topology for node 16.
Number of agreeing gene trees: 4



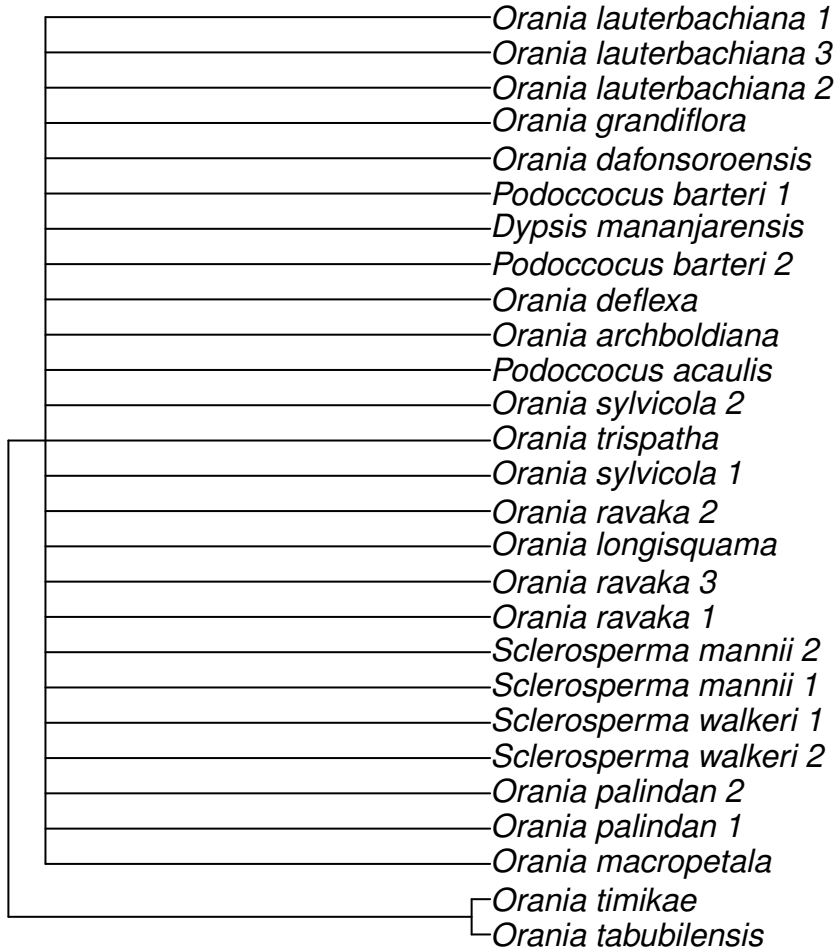
First alternative topology for node 17.
Number of agreeing gene trees: 5



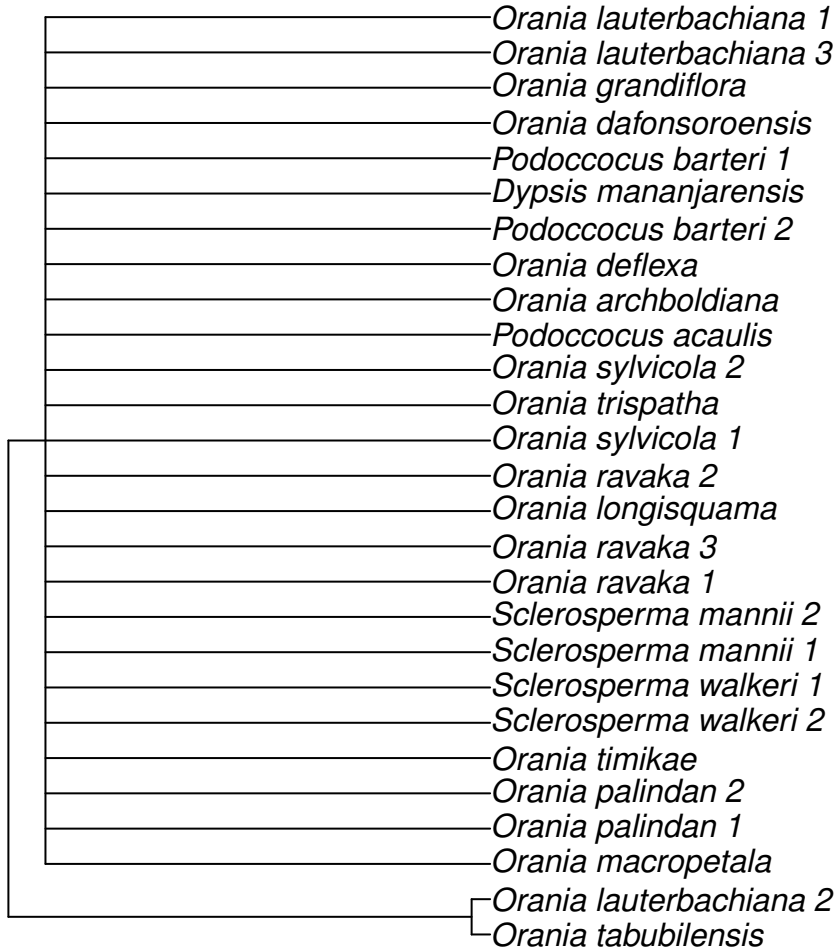
First alternative topology for node 18.
Number of agreeing gene trees: 5



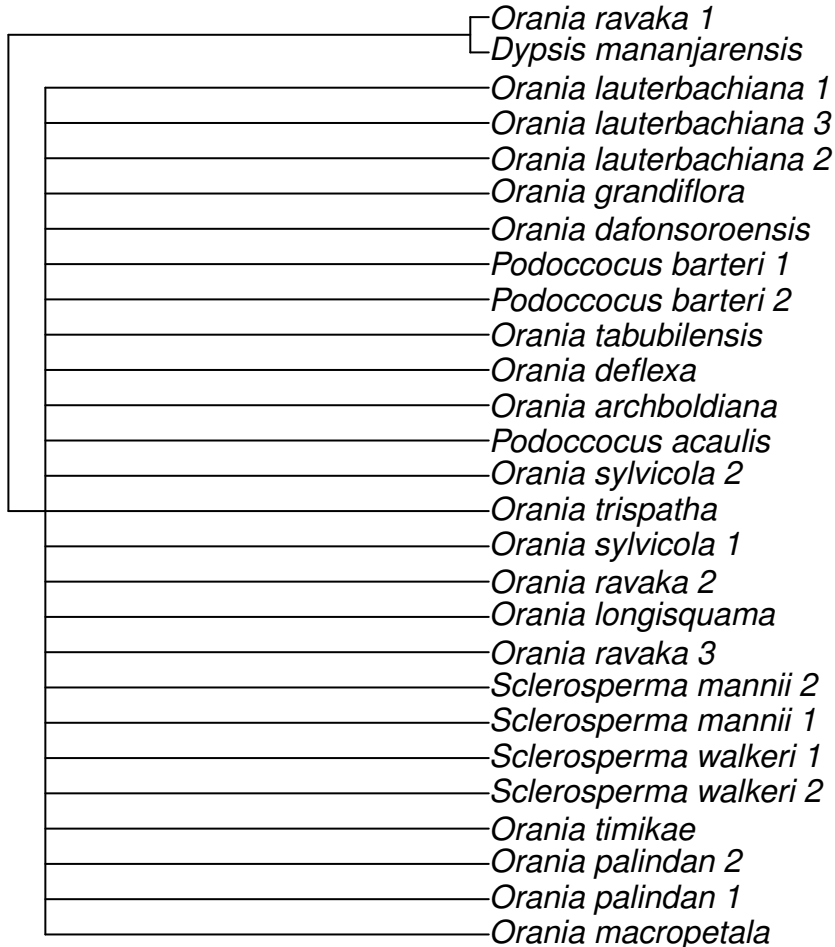
First alternative topology for node 19.
Number of agreeing gene trees: 5



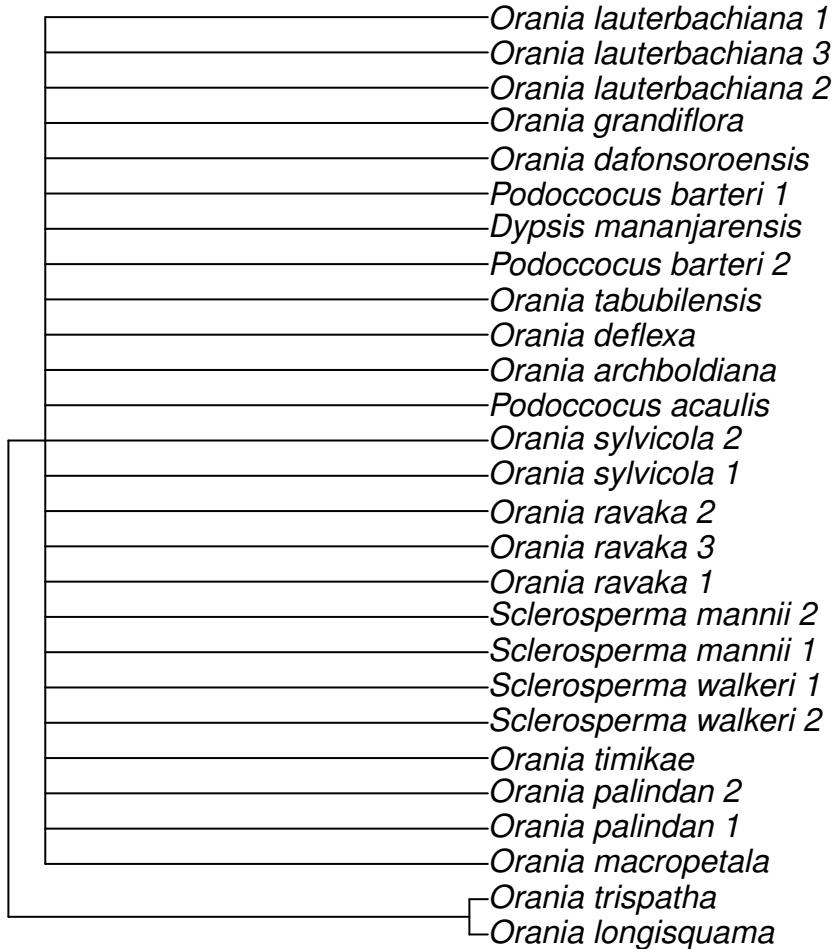
First alternative topology for node 20.
Number of agreeing gene trees: 3



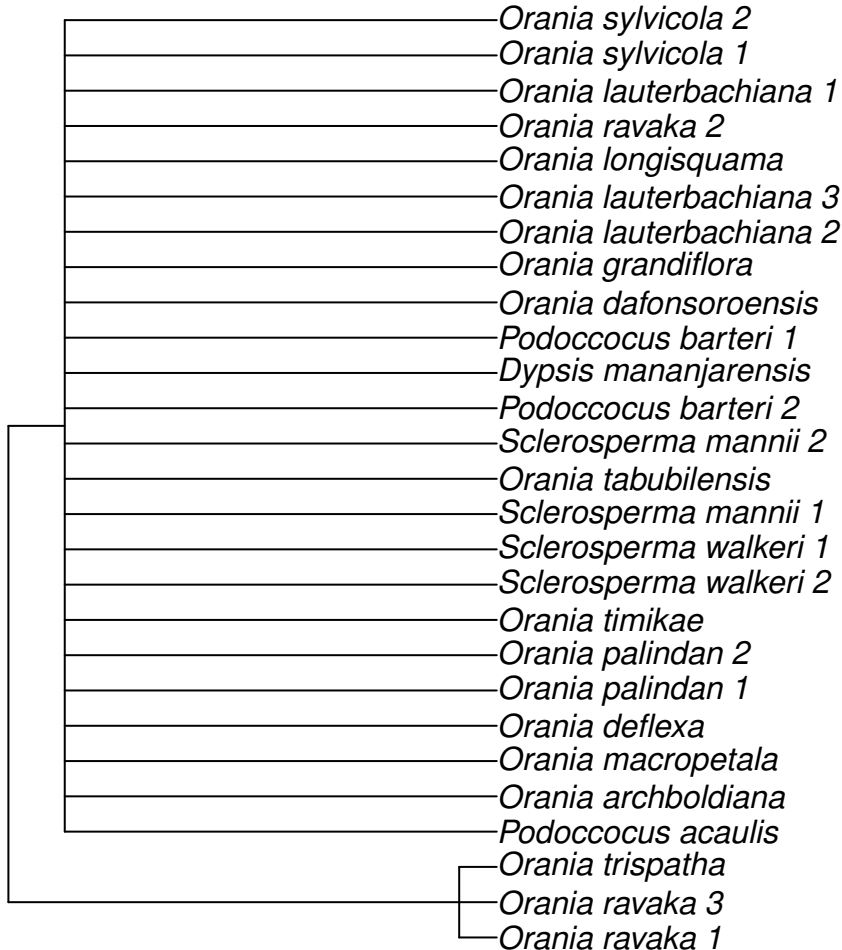
First alternative topology for node 21.
Number of agreeing gene trees: 5



First alternative topology for node 22.
Number of agreeing gene trees: 8



First alternative topology for node 23.
Number of agreeing gene trees: 5



First alternative topology for node 24.
Number of agreeing gene trees: 5

