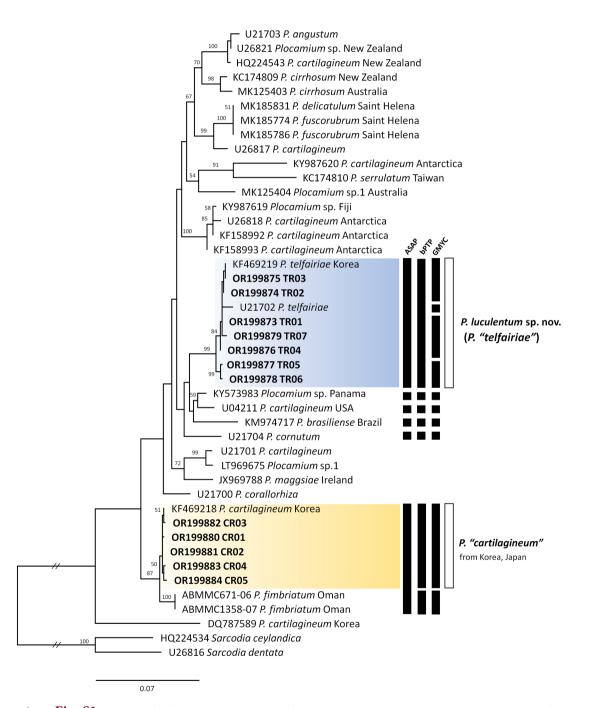
## **Supplementary Materials**

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**Supplementary Fig. S1.** Maximum likelihood phylogenetic tree of the genus *Plocamium* with species delimitation result from ASAP, bPTP, and GMYC based on the *rbcL* gene. Sequences inside the blue box indicate *Plocamium luculentum* sp. nov. and yellow box indicate *P. "cartilagineum"* from the Northwest Pacific. Distinct haplotypes sequences in this study are presented in bold. ASAP, Assemble Species by Automatic Partitioning; bPTP, Poisson Tree Process; GMYC, generalized mixed Yule-coalescent.