Supplementary Table 1. GenBank numbers of 18S rDNA sequences of species of Miraciidae used in the phylogenetic analyses, and two species from Thalestridae and Pseudotachidiidae used as external groups.

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| Species | Authority | NCBI reference |
| **Family Miraciidae Dana, 1846** | | |
| **Subfamily Diosaccinae Sars G.O., 1906** | | |
| *Amonardia coreana* | Song, Rho & Kim W., 2007 | KT030261.1 |
| *Amphiascoides sp.* |  | KP702189.1 |
| *Diosaccus ezoensis* | Itô Tat, 1974 | EU380290.1 |
| *Diosaccus koreanus* | Lim, Bang, Moon & Back, 2020 | MT002902.1 |
| *Paramphiascella aestuarii* **n. sp.** | This study | PQ505074 |
| *Paramphiascella fulvofasciata* | Rosenfield & Coull, 1974 | EU380293.1 |
| *Rhyncholagena cuspis* | Yeom & Lee, 2023 | OR257802 |
| *Robertgurneya jejuensis* | Yeom & Lee, 2022 | OP798781.1 |
| *Sarsamphiascus hawaiiensis* | Yeom & Lee, 2020 | MN496456 |
| *Sarsamphiascus kawamurai* | (Ueda & Nagai, 2005) | MN541391 |
| *Typhlamphiascus typhlops* | (Sars G.O., 1906) | EU380292 |
| **Subfamily Miraciinae Dana, 1846** | | |
| *Miracia efferata* | Dana, 1849-1852 | EU380294.1 |
| **Subfamily Stenheliinae Brady, 1880** | | |
| *Stenhelia pubescens* | Chislenko, 1978 | EU380291.1 |
| **Family Pseudotachidiidae Lang, 1936** | | |
| **Subfamily Pseudotachidiidae Lang, 1936** | | |
| *Pseudotachidius bipartitus* | Montagna, 1980 | MF077760.1 |
| **Family Thalestridae Sars G.O., 1905** | | |
| **Subfamily Thalestrinae Lang, 1936** | | |
| *Parathalestris verrucosa* | Itô Tat, 1970 | MT002909.1 |