

Table S1. Pairwise distances (Tamura-Nei distance) based on 658 bp between COI sequences among species in Canuellidae.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1. <i>S. daecheonensis</i> [OP452900] | | | | | | | | |
| 2. <i>S. daecheonensis</i> [OP452901] | 0.609 | | | | | | | |
| 3. <i>S. daecheonensis</i> [OP452902] | 0.612 | 0.917 | | | | | | |
| 4. <i>S. daecheonensis</i> [OP452903] | 0.609 | 0.913 | 0 | | | | | |
| 5. <i>S. daecheonensis</i> [OP452904] | 0.609 | 0.913 | 0 | 0 | | | | |
| 6. <i>S. daecheonensis</i> [OP452905] | 0.609 | 0.913 | 0 | 0 | 0 | | | |
| 7. <i>S. wonchoeli</i> [OP452899] | 19.939 | 19.635 | 20.031 | 19.939 | 19.939 | 19.939 | | |
| 8. <i>C. perplexa</i> [MH670550] | 22.070 | 22.374 | 22.324 | 22.374 | 22.374 | 22.374 | 22.796 | |
| 9. <i>C. perplexa</i> [MH670545] | 21.461 | 21.766 | 21.713 | 21.766 | 21.766 | 21.766 | 22.340 | 0.912 |

Table S2. Pairwise distances (Tamura-Nei distance) based on 1,728 bp between 18SrRNA sequences among species in Canuellidae.

| Species [NCBI Accession Number] | 1 | 2 | 3 | 4 | 5 |
|--|-------|-------|-------|-------|-------|
| 1. <i>S. daecheonensis</i> sp. nov. [OP454041] | | | | | |
| 2. <i>S. daecheonensis</i> sp. nov. [OP454042] | 0 | | | | |
| 3. <i>S. wonchoeli</i> sp. nov. [OP454039] | 2.953 | 2.953 | | | |
| 4. <i>S. wonchoeli</i> sp. nov. [OP454040] | 3.214 | 3.214 | 0.261 | | |
| 5. <i>C. perplexa</i> [MF077725] | 8.565 | 8.565 | 8.174 | 8.406 | |
| 6. <i>C. perplexa</i> [MF077726] | 8.507 | 8.507 | 8.174 | 8.406 | 0.237 |