Supplementary file 6. Family Ophiotomidae, pairwise distance values based on 623 bp mitochondrial COI sequences, calculated using the Kimura 2-parameter method with 1,000 bootstrap replicates (Values in blue represent Standard Error). Abbreviation: SCS = South China Sea.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Species | GenBank Accession No. | P-distance (%) | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **1** | *Ophiopristis shenhaiyongshii* sp. nov. (SCS) | MZ198776 |  | 1.77% | 1.67% | 1.78% | 1.66% | 1.63% | 1.92% | 1.94% | 2.00% | 1.84% | 1.96% | 2.05% |
| **2** | *Ophiacantha spectabilis* | KU895369 | 15.83% |  | 1.65% | 1.71% | 1.95% | 1.93% | 1.91% | 1.95% | 1.94% | 1.93% | 2.09% | 2.04% |
| **3** | *Ophiopristis luctosa* | KU895397 | 16.42% | 16.63% |  | 1.83% | 1.97% | 1.96% | 1.86% | 2.02% | 1.95% | 1.97% | 2.09% | 2.12% |
| **4** | *Ophiopristis procera* | KU895396 | 17.89% | 16.61% | 18.03% |  | 2.07% | 2.07% | 2.05% | 2.13% | 1.92% | 1.89% | 2.23% | 2.25% |
| **5** | *Ophiotreta matura* | KU895401 | 17.84% | 20.52% | 21.10% | 23.06% |  | 0.30% | 1.76% | 1.89% | 1.87% | 1.74% | 2.07% | 2.18% |
| **6** | *Ophiotreta eximia* | KU895398 | 17.43% | 20.52% | 20.89% | 23.06% | 0.64% |  | 1.73% | 1.88% | 1.85% | 1.72% | 2.04% | 2.17% |
| **7** | *Ophiomitra leucorhabdota* | KU895394 | 20.03% | 20.04% | 19.64% | 21.15% | 16.81% | 16.21% |  | 1.92% | 1.92% | 1.84% | 2.05% | 2.06% |
| **8** | *Ophiotoma alberti* | KU895356 | 20.67% | 19.41% | 22.61% | 22.16% | 19.44% | 19.44% | 20.14% |  | 1.78% | 1.82% | 2.11% | 2.07% |
| **9** | *Ophiotoma assimilis* | KU895355 | 21.32% | 20.06% | 20.24% | 21.90% | 19.45% | 19.03% | 19.82% | 17.13% |  | 1.64% | 2.01% | 2.11% |
| **10** | *Ophiocopa spatula* | KU895393 | 19.39% | 19.00% | 19.61% | 19.19% | 18.62% | 18.41% | 19.05% | 18.04% | 16.19% |  | 2.04% | 2.03% |
| **11** | *Astrodia abyssicola* | AB758828 | 20.05% | 22.14% | 24.09% | 25.98% | 21.69% | 21.27% | 22.40% | 22.64% | 21.93% | 20.93% |  | 1.83% |
| **12** | *Asteronyx loveni* | KU895062 | 21.05% | 21.71% | 22.78% | 23.47% | 24.26% | 24.26% | 22.16% | 22.55% | 23.22% | 19.86% | 17.69% |  |