**Table S1.** GenBank accession numbers of the sequences used in phylogeny reconstruction and species delimitation retrieved from NCBI. Sequences of specimens from this study are in bold and sequences used in pair-wise distance calculations are indicated by an asterisk (\*)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **Locality** | **Identification #** | **Accession numbers** | | |
|  |  |  | ***COI*** | ***IGR*** | ***rDNA*** |
| Family: Dendrophylliidae | | | | | |
| ***Tubastraea violacea* sp. nov.\*** | **Hong Kong** | **-** | **OM372504** | **OM567658** | **OM418772** |
| ***Tubastraea violacea* sp. nov.\*** | **Hong Kong** | **-** | **OM372505** | **OM567659** | **OM418773** |
| ***Tubastraea chloromura* sp. nov.\*** | **Hong Kong** | **-** | **OM372506** | **OM567660** | **OM418774** |
| ***Tubastraea chloromura* sp. nov.\*** | **Hong Kong** | **-** | **OM372507** | **OM567661** | **OM418775** |
| ***Tubastraea dendroida* sp. nov.\*** | **Hong Kong** | **-** | **OM372508** | **OM567662** | **OM418770** |
| ***Tubastraea dendroida* sp. nov.\*** | **Hong Kong** | **-** | **OM372509** | **OM567663** | **OM418771** |
| *Tubastraea megacorallita\** | Hong Kong | - | MW411803 | MW419904 | MW415889 |
| *Tubastraea* sp. 3 | Japan | KI2 | HG965355 | HG965291 | HG965423 |
| *Tubastraea* sp. 3 | Japan | KI3 | HG965356 | HG965292 | HG965424 |
| *Cladopsammia gracilis* | Japan | AO105 | - | HG965252 | HG965384 |
| *Cladopsammia gracilis* | Japan | SR26 | HG965320 | HG965253 | HG965385 |
| *Rhizopsammia verrilli* | Marquesas, French Polynesia | MQ035 | HG965334 | HG965268 | HG965400 |
| *Rhizopsammia verrilli* | Marquesas, French Polynesia | MQ180 | HG965335 | HG965269 | HG965401 |
| *Rhizopsammia wettsteini* | Djibouti | DJ247 | HG965337 | HG965271 | HG965403 |
| *Rhizopsammia wettsteini* | Maldives | M765 | HG965338 | HG965272 | HG965404 |
| *Australopsammia aurea* | Maldives | M762 | HG965341 | HG965275 | HG965407 |
| *Australopsammia aurea* | Mayotte Island | MY070 | HG965342 | HG965276 | HG965408 |
| *Tubastraea coccinea*\* | Japan | AQ2 | HG965344 | HG965278 | HG965410 |
| *Tubastraea coccinea* | Japan | SR144 | HG965345 | HG965279 | HG965411 |
| *Tubastraea diaphana*\* | Japan | AO101 | - | HG965281 | HG965413 |
| *Tubastraea micranthus*\* | New Caledonia | HS3129 | HG965347 | HG965283 | HG965415 |
| *Tubastraea micranthus* | Maldives | M768 | HG965348 | HG965284 | HG965416 |
| *Tubastraea* sp. 1\* | Mayotte Island | MY105 | HG965351 | HG965287 | HG965419 |
| *Tubastraea* sp. 2\* | New Caledonia | HS2883 | HG965352 | HG965288 | HG965420 |
| *Tubastraea* sp. 2 | New Caledonia | HS2884 | HG965353 | HG965289 | HG965421 |