

Supplementary Table S2. Mitochondrial *cox3* and *atp6* sequences retrieved from GenBank in this study

| Species name | Accession No. | | Reference |
|-------------------------------|---------------|-------------|--------------------|
| | <i>cox3</i> | <i>atp6</i> | |
| <i>Colpomenia bullosa</i> | JQ918798 | - | Lee et al. (2012) |
| | JQ918799 | - | |
| <i>C. claytoniae</i> | HQ833813 | - | Boo et al. (2011) |
| | HQ833814 | - | |
| <i>C. ecuticulata</i> | HQ833775 | - | Boo et al. (2011) |
| | HQ833776 | - | |
| <i>C. expansa</i> | HQ833780 | - | Boo et al. (2011) |
| | HQ833781 | - | |
| <i>C. durvillei</i> | JQ918811 | - | Lee et al. (2012) |
| | JQ918812 | - | |
| <i>C. peregrina</i> | JX027338 | JX027298 | Lee et al. (2014a) |
| | JX027362 | JX027330 | |
| | JX027370 | JX027336 | |
| | JX027375 | JX027337 | |
| <i>C. phaeodactyla</i> | JQ918814 | - | Lee et al. (2012) |
| | JQ918815 | - | |
| <i>C. ramosa</i> | JQ918789 | - | Lee et al. (2012) |
| <i>C. sinuosa</i> | HQ833777 | - | Boo et al. (2011) |
| | HQ833778 | - | |
| | JX944760 | - | Lee et al. (2013) |
| | JX944761 | - | |
| <i>C. tuberculata</i> | HQ833773 | - | Boo et al. (2011) |
| | HQ833774 | - | |
| <i>Ectocarpus siliculosus</i> | NC030223 | NC030223 | Cock et al. (2010) |
| <i>Scytosiphon lomentaria</i> | NC025240 | NC025240 | Liu et al. (2016) |

-, no sequences found in GenBank.

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