

Supplementary Materials

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Supplementary Table S1. GenBank accession numbers and collection information of the sequences used in phylogenetic analyses

| | Publication / Collection information | cox1 | rbcL |
|---|---|----------|----------|
| <i>Alsidium oliveiranum</i> sp. nov. | Praia da Cruz, Marataízes, Espírito Santo, Brazil; Sep 10, 2014, PD & MTF | MN165073 | MN165085 |
| | Praia de Parati, Anchieta, Espírito Santo, Brazil; Oct 4, 2006, MTF | MN165074 | MN165086 |
| <i>Alsidium corallinum</i> C. Agardh | Díaz-Tapia et al. (2017); Ancona, Italy; Jul 28, 2015, FR | MF094017 | MN165087 |
| | Díaz-Tapia et al. (2017); Ancona, Italy | MN165075 | MF094034 |
| | García-Soto and Lopez-Bautista (2018); Canary Islands | - | MH204652 |
| | Ancona, Italy; May 30, 2016, PD & FR | - | MN165088 |
| | Arrecife, Lanzarote, Spain; Jun 13, 2018, PD & LL | - | MN165089 |
| | Arrecife, Lanzarote, Spain; Jun 13, 2018, PD & LL | - | MN165090 |
| | Arrecife, Lanzarote, Spain; Jun 13, 2018, PD & LL | - | MN165091 |
| <i>Alsidium seaforthii</i> (Turner) J. Agardh | Díaz-Tapia et al. (2017), as <i>Bryothamnion</i> | MF093968 | MF101430 |
| | Praia da Pedra Rachada, Paracuru, Ceará, Brazil; Aug 29, 2011, LPS & MTF | MN165076 | - |
| | Praia da Caponga, Cascavel, Ceará, Brazil; Aug 31, 2011, LPS & MTF | MN165077 | - |
| | Praia de Flecheiras, Trairi, Ceará, Brazil; Jun 26, 2013, LPS | MN165078 | - |
| | Praia da Taíba, São Gonçalo do Amarante, Ceará, Brazil; Jun 27, 2013, LPS | MN165079 | - |
| | Maracajaú, Rio Grande do Norte, Brazil; Nov 25, 2018, MTF | MN165080 | - |
| | Praia da Lagoinha, Ubatuba, São Paulo, Brazil; Oct 15, 2016, LPS & MTF | MN165081 | - |
| <i>Alsidium triquetrum</i> (S. G. Gmelin) Trevisan | Díaz-Tapia et al. (2017), as <i>Bryothamnion</i> | MF094020 | - |
| | García-Soto and Lopez-Bautista (2018) | - | MH204654 |
| | Praia de Dois Coqueiros, Caucaia, Ceará, Brazil; Aug 28, 2011, LPS & MTF | MN165082 | - |
| | Praia de Flecheiras, Trairi, Ceará, Brazil; Jun 26, 2013, LPS | MN165083 | - |
| | Maracajaú, Rio Grande do Norte, Brazil; Nov 25, 2018, MTF | MN165084 | - |
| <i>Digenea</i> sp. | Boo et al. (2018) | MH514884 | MH514872 |
| <i>Digenea</i> "simplex" | Díaz-Tapia et al. (2017) | MF093979 | MF101465 |
| <i>Digenea mexicana</i> G. H. Boo & D. Robledo | Boo et al. (2018) | MH514874 | MH514862 |
| | Boo et al. (2018) | MH514875 | MH514863 |
| | Boo et al. (2018) | MH514876 | MH514864 |
| | Boo et al. (2018) | MH514877 | MH514865 |
| | Boo et al. (2018) | MH514878 | MH514866 |
| <i>Digenea arenahauriens</i> C. W. Schneider, Hamzeh & G. W. Saunders | Schneider et al. (2018) | HQ933355 | - |
| | Schneider et al. (2018) | HQ933356 | - |
| | Schneider et al. (2018) | HQ933436 | MG648068 |
| | Schneider et al. (2018) | MG648073 | - |
| | Schneider et al. (2018) | MG648069 | - |
| | Schneider et al. (2018) | MG648070 | - |
| | Schneider et al. (2018) | MG648071 | - |
| | Schneider et al. (2018) | MG648072 | - |
| | Schneider et al. (2018) | MG648073 | - |
| | Schneider et al. (2018) | MG648074 | - |
| | Schneider et al. (2018) | MG648075 | - |
| | Schneider et al. (2018) | MG648076 | - |
| | Schneider et al. (2018) | MH388727 | MH388550 |
| | Schneider et al. (2018) | MH388747 | - |
| <i>Digenea simplex</i> (Wulfen) C. Agardh | Schneider et al. (2018) | MG030761 | - |
| <i>Digenea cymatophila</i> (R. E. Norris) Díaz-Tapia & Maggs | Sherwood et al. (2010), as <i>Alsidium</i> | HQ422871 | - |
| | Sherwood et al. (2010), as <i>Alsidium</i> | HQ422981 | - |
| | Sherwood et al. (2010), as <i>Alsidium</i> | HQ422944 | - |
| | Sherwood et al. (2010), as <i>Alsidium</i> | HQ422597 | - |
| <i>Digenea rafaellii</i> G. H. Boo, G. Andrade-Sorcia & S. M. Boo | Boo et al. (2018) | MH514879 | MH514867 |
| | Boo et al. (2018) | MH514880 | MH514868 |
| | Boo et al. (2018) | MH514881 | MH514869 |
| | Boo et al. (2018) | MH514882 | MH514870 |
| | Boo et al. (2018) | MH514883 | MH514871 |
| <i>Acanthophora pacifica</i> (Setchell) Kraft | Kurihara et al. (2010) | GU223867 | - |
| <i>Chondria dangeardii</i> E. Y. Dawson | Kurihara et al. (2010) | GU223879 | - |
| <i>Chondria littoralis</i> Harvey | Unpublished | - | KF672854 |
| | Unpublished | - | KF672853 |
| <i>Chondria decipiens</i> Kylin | Mclvor et al. (2002) | - | AY172578 |

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