

Supplementary Material

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Supplementary Table S1. *psbA* sequences information

Species	Geographic origin	Specimen voucher	Genbank accession No.
CORALLINACEAE			
<i>Hydrolithon boergesenii</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621493	-
<i>Hydrolithon boergesenii</i> (as <i>Hydrolithon reinboldii</i> on Genbank)	El Salvador	-	AB576038
<i>Hydrolithon boergesenii</i>	Guadeloupe	RYUA0015	KM407536
<i>Hydrolithon boergesenii</i>	Guadeloupe	-	KM407537
Uncultured Corallinales	Philippines	LBC0859	GQ918069
Uncultured Corallinales	French Polynesia	LBC0950	GQ918127
<i>Lithophyllum</i> sp.	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB623158	-
<i>Lithophyllum</i> sp.	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB623159	-
<i>Lithophyllum pseudoplatyphyllum</i> ^a	St. Croix	KX020450	AB576029
<i>Lithophyllum pseudoplatyphyllum</i> ^a	St. Croix	KX020451	AB576030
<i>Lithophyllum pseudoplatyphyllum</i> ^a	St. Croix	KX020454	AB576031
<i>Lithophyllum platyphyllum</i> ^a	St. Croix	KX020452	FJ361409
<i>Lithophyllum platyphyllum</i> ^a	St. Croix	KX020453	FJ361544
<i>Lithophyllum platyphyllum</i> ^a	St. Croix	KX020455	DQ167984
<i>Lithophyllum neocongestum</i> ^a	St. Croix	KX020457	DQ167941
<i>Lithophyllum neocongestum</i> ^a	Atl Panama	KX020466	FJ361555
<i>Lithophyllum yemenense</i> ^a	Yemen	KP976408	FJ361408
<i>Lithophyllum stictaeforme</i> ^a	Italy	KX020443	FJ361549
<i>Lithophyllum stictaeforme</i> ^a	Italy	KX020464	JQ896235
<i>Lithophyllum stictaeforme</i> ^a	Italy	KX020465	JQ896253
<i>Lithophyllum riosmenae</i>	New Zealand	ND496	FJ361615
<i>Lithophyllum kaiseri</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Sul (17°57'50" S, 38°42'02" W)	RB623160	DQ167958
<i>Lithophyllum kaiseri</i> ^a	Madagascar	KX020445	JQ896239
<i>Lithophyllum kaiseri</i> ^a	Martinique	US170947	KX020461
<i>Lithophyllum kaiseri</i> ^a	Australia	US169409	KX020462
<i>Lithophyllum kaiseri</i> ^a	Australia	US169410	KX020463
<i>Lithophyllum kaiseri</i> (as <i>Lithophyllum kotschyanum</i> on Genbank)	Japan	RYUA0008	AB576031
<i>Titanoderma pustulatum</i> (as <i>Lithophyllum pustulatum</i> on Genbank)	Spain	-	KM407551
<i>Titanoderma pustulatum</i> (as <i>Lithophyllum pustulatum</i> on Genbank)	New Zealand	-	FJ361746
<i>Titanoderma pustulatum</i> (as <i>Lithophyllum pustulatum</i> on Genbank)	New Zealand	-	DQ167872
<i>Titanoderma prototypum</i>	Brazil, Bahia, Banco dos Abrolhos, Parcel das Paredes, Pedra de Leste (17°47'00" S, 39°03'05" W)	RB632601	-
<i>Pneophyllum conicum</i>	Brazil, Bahia, Arquipélago de Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621924	-
<i>Pneophyllum conicum</i>	Brazil, Bahia, Arquipélago de Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621929	-

Supplementary Table S1. Continued

Species	Geographic origin	Specimen voucher	Genbank accession No.
<i>Pneophyllum conicum</i>	Brazil, Bahia, Arquipélago de Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621932	-
<i>Pneophyllum conicum</i>	Brazil, Bahia, Arquipélago de Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621933	-
<i>Pneophyllum conicum</i>	Japan	RYUA0031	AB576040
<i>Pneophyllum conicum</i>	Australia	-	KM407561
<i>Porolithon onkodes</i>	Brazil, Bahia, Banco dos Abrolhos, Parcel das Paredes, Pedra de Leste (17°47'00" S, 39°03'05" W)	RB623155	AB576040
<i>Porolithon onkodes</i> (as <i>Hydrolithon onkodes</i> on Genbank)	Japan	RYUA0010	AB576036
<i>Porolithon onkodes</i> (as <i>Hydrolithon onkodes</i> on Genbank)	Japan	RYUA0011	AB576037
<i>Porolithon onkodes</i> (as <i>Hydrolithon onkodes</i> on Genbank)	Indonesia	-	KM407534
<i>Porolithon onkodes</i> (as <i>Hydrolithon onkodes</i> on Genbank)	New Zealand	ND560	FJ361689
<i>Porolithon</i> sp.	USA	NCU627394	KJ637690
HAPALIDIACEAE			
<i>Lithothamnion muelleri</i>	Mexico	GALW15734	KC819264
<i>Lithothamnion crispatum</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB623156	-
<i>Lithothamnion crispatum</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB623157	-
<i>Lithothamnion crispatum</i>	New Zealand	ND226	JQ896233
<i>Lithothamnion crispatum</i>	New Zealand	RHO2099	KC963420
<i>Lithothamnion crispatum</i> (as <i>Lithothamnion</i> sp. on Genbank)	Spain	VPF00148	KJ710356
<i>Melyvonnea erubescens</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621495	FJ361502
<i>Melyvonnea erubescens</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621742	KC963420
<i>Melyvonnea erubescens</i> ^a (as <i>Mesophyllum erubescens</i> on Genbank)	Brazil (FN)	FLOR14896	KM983035
<i>Melyvonnea erubescens</i> ^a (as <i>Mesophyllum erubescens</i> on Genbank)	Brazil (FN)	FLOR14898	KM983036
<i>Melyvonnea erubescens</i> ^a (as <i>Mesophyllum erubescens</i> on Genbank)	Brazil (ES)	FLOR14901	KM983039
Unidentified Hapalidiales	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB623166	-
SPOROLITHACEAE			
<i>Sporolithon tenue</i>	Brazil (FN)	BAHIABRA-ZIL125124	KC870923
<i>Sporolithon tenue</i>	Brazil (FN)	BAHIABRA-ZIL33	KC870924
<i>Sporolithon ptychoides</i>	Brazil, Bahia, Arquipélago dos Abrolhos, Ilha de Santa Bárbara, Porto Norte (17°57'45" S, 38°41'43" W)	RB621750	KJ637690
<i>Sporolithon ptychoides</i>	Brazil (BA)	AmadoFilhoBrazil8	KC870926
<i>Sporolithon ptychoides</i>	Brazil (BA)	AmadoFilhoBrazil7	KC870927
RHODOGORGONACEAE			
Uncultured Rhodogorgonales	New Caledonia	LLG0730	GQ917503
Uncultured Rhodogorgonales	New Caledonia	LLG0743	GQ917504

Sequences generated in this study are shown in bold.

^aSpecies with sequenced type material, complementary *rbcl* sequences matching type material in other studies (Sissini et al. 2014, Hernandez-Kantun et al. 2016) or sequences from topotypes.

REFERENCES

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