

Table S1. Collection details and GenBank accession numbers for all specimens from the Le Gall and Saunders laboratories used in this study

<i>BOLD</i>	<i>Voucher</i>	<i>Family</i>	<i>Species</i>	<i>Collectors</i>	<i>Date</i>	<i>Country</i>	<i>Province/ State</i>	<i>Site</i>	<i>Latitude</i>	<i>Longitude</i>	<i>LSU</i>	<i>rbcL</i>	<i>rbcL-3P</i>	<i>COI-5P</i>
ABMMC382-06	GWS002650	Dumontiaceae	<i>Constantinea rosa-marina</i> (Gmelin) Postels & Ruprecht	S. Lindstrom	12.12.2004	United States of America	Alaska	Pt. Louisa	58,375	-134,7264	KT602912	KT310714		KT307615
ABMMC4695-09	G0034		<i>Dasyphloea insignis</i> Montagne	G.T. Kraft & G.W. Saunders	1.12.1991	Australia	South Australia	Port MacDonnell	-38,0579	140,6936	DQ343688			
ABMMC7138-10	GWS014869			G.T. Kraft	18.1.2010	Australia	Tasmania	Pardoe Beach, Devonport	-41,17044	146,37564			KT310687	
ABMMC7785-10	GWS015838			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917899
ABMMC039-05	G0224		<i>Dilsea natashae</i> (S.C. Lindstrom) G.W.Saunders et S.C. Lindstrom	S. Lindstrom	25.4.1994	United States of America	Alaska	Shaman I., north end of Douglas I.	58,3058	-134,6839	JF928825	JN403067		AY970624
ABMMC4934-09	GWS001024		<i>Dudresnaya hawaiiensis</i> R.K.S. Lee	G.T. Kraft	11.3.2001	Australia	New South Wales	Lord Howe I., Neds Beach	-31,5167	159,0667	KC130243	KC130219		KC130201
ABMMC031-05	GWS000209		<i>Dumontia simplex</i> Cotton	S. Lindstrom	2.6.1996	United States of America	Alaska	Knoll Head, Cook Inlet	59,6406	-153,5097	JN403052	JN403063		AY971153
ABMMC4908-09	GWS000924		<i>Kraftia dichotoma</i> Shepley & Womersley	G.W. Saunders	3.12.2000	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38,2669	144,6678	GU176296			
ABMMC7096-10	GWS014820			G.T. Kraft & G.W. Saunders	13.1.2010	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38,2669	144,6678			KT310685	HM917424
ABMMC328-06	GWS000349		<i>Pikea</i> sp._4californica	S. Lindstrom	19.7.1996	United States of America	California	Moss Beach	36,8165	121,7932	KT602899	KT310683		KM254232
ABMMC4729-09	G0170	Kallymeniaceae	<i>Austrokallymenia cribrogloea</i> (Womersley & R.E.Norris) Huisman & G.W.Saunders	G.T. Kraft	1.1994	Australia	Tasmania	Tinderbox Reserve, South of Hobart	-43,0592	147,3305				KX783074
ABMMC4732-09	G0185			G.W. Saunders & G.T. Kraft	2.2.1994	Australia	Western Australia	Roe Reef, Rottness I.	-31,9792	115,5333	AY171611			KX783088
ABMMC4755-09	G0280			A. Millar & P. Richards	1.2.1995	Australia	New South Wales	'Kallymenia Flats' off Hole in the Wall, Jervis Bay	-35,065	150,735	JX296180			KX808038
ABMMC10694-10	GWS000931			G.W. Saunders	4.12.2000	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38,2669	144,6678	JX296181			KX783057
ABMMC8134-10	GWS016327			G.W. Saunders & K. Dixon	28.1.2010	Australia	Tasmania	Sanctuary Reef, Wynyard	-40,98593	145,7701	KF280960	KF280986		HM918159
ABMMC5076-09	GWS002029		<i>Austrokallymenia rebecca</i> G.W.Saunders & Kraft	G.T. Kraft	30.1.2004	Australia	New South Wales	Yellow Rock, Lord Howe I.	-31,515	159,0344	JX296182	KF280973		HM915972
OZSEA1110-10	GWS022818			G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659				KX808044
OZSEA1129-10	GWS023340			G.W. Saunders, K. Dixon & R. Withall	23.11.2010	Australia	New South Wales	North Head Gutters, Lord Howe	-31,52439	159,04204				KX808022
OZSEA3198-13	GWS034490			G.W. Saunders & K. Dixon	29.11.2012	Australia	Norfolk Island	Fig Valley, Norfolk	-29,05566	167,9297				KX808105
ABMMC19608-14	GWS036235		<i>Austrokallymenia roensis</i> Huisman	J. Huisman	27.1.2014	Australia	Western Australia	Roe Reef, Rottness Island	-31,9792	115,5333	KX783161	KX783118		KX808094
ABMMC10514-10	CL050306		<i>Austrokallymenia rosea</i> (Womersley & R.E.Norris) Huisman & G.W.Saunders	C.E. Lane	8.2.2005	Australia	New South Wales	Jervis Bay	-35,0833	150,75	JX296140	KU381814		

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ABMMC4757-09	G0283			A. Millar & P. Richards	1.2.1995	Australia	New South Wales	Kallymenia Flats off Hole in the Wall, Jervis Bay	-35,065	150,735				KX807989
OZSEA3189-13	GWS032490			G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Little Organ, Norfolk	-29,00254	167,95161				KX808019
OZSEA3182-13	GWS032609			G.W. Saunders & K. Dixon	9.12.2012	Australia	New South Wales	Split Solitary Island (NW), Coffs Harbour	-30,2421	153,17921	KX788146	KX783056		KX808001
OZSEA3184-13	GWS032676			G.W. Saunders & K. Dixon	10.12.2012	Australia	New South Wales	Black Rock, Coffs Harbour	-30,20087	153,25879				KX808078
OZSEA3185-13	GWS032681			G.W. Saunders & K. Dixon	10.12.2012	Australia	New South Wales	Black Rock, Coffs Harbour	-30,20087	153,25879				KX807982
OZSEA3192-13	GWS032690			G. Filloramo & L. Kraft	10.12.2012	Australia	New South Wales	Woolgoolga, Coffs Harbour	-30,11	153,202				KX808047
OZSEA3197-13	GWS034460			G.W. Saunders & K. Dixon	28.11.2012	Australia	Norfolk Island	The Crack, Nepean I., Norfolk	-29,0725	167,96097		KX783063		
OZSEA556-10	GWS022790		<i>Austrokallymenia rosea</i> (LH)	R. Withall	20.11.2010	Australia	New South Wales	Lord Howe I., Neds Beach	-31,5167	159,0667			KX783081	
OZSEA1113-10	GWS022847			G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659				KX808097
OZSEA1122-10	GWS023142			G.T. Kraft	22.11.2010	Australia	New South Wales	Lord Howe I., Neds Beach	-31,5167	159,0667				KX808014
OZSEA571-10	GWS023166			G.T. Kraft	22.11.2010	Australia	New South Wales	Lord Howe I., Neds Beach	-31,5167	159,0667				KX808054
OZSEA1114-10	GWS023251			G.W. Saunders, K. Dixon & R. Withall	23.11.2010	Australia	New South Wales	North Head Gutters, Lord Howe	-31,52439	159,04204				KX808107
OZSEA1126-10	GWS023260			G.W. Saunders, K. Dixon & R. Withall	23.11.2010	Australia	New South Wales	North Head Gutters, Lord Howe	-31,52439	159,04204				KX808077
OZSEA1127-10	GWS023268			G.W. Saunders, K. Dixon & R. Withall	23.11.2010	Australia	New South Wales	North Head Gutters, Lord Howe	-31,52439	159,04204				KX808064
OZSEA1115-10	GWS023444			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578				KX807987
OZSEA1116-10	GWS023445			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578				KX807986
OZSEA1117-10	GWS023459			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578				KX807999
OZSEA1132-10	GWS023505			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578			KX783119	
OZSEA1133-10	GWS023671			G.W. Saunders & K. Dixon	25.11.2010	Australia	New South Wales	Split Rock, Lord Howe	-31,5836	159,06583				KX808004
OZSEA1121-10	GWS023790			G.W. Saunders & K. Dixon	25.11.2010	Australia	New South Wales	Split Rock, Lord Howe	-31,5836	159,06583			KX783111	

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OZSEA1134-10	GWS023860			G.W. Saunders & R. Withall	26.11.2010	Australia	New South Wales	Yellow Rock, Lord Howe I.	-31,515	159,0344		KX783072		KX808039
OZSEA1135-10	GWS023874			G.W. Saunders & R. Withall	26.11.2010	Australia	New South Wales	Yellow Rock, Lord Howe I.	-31,515	159,0344			KX783055	
ABMMC20777-15	GWS036335		<i>Austrokallymenia schizophylla</i> (J.Agardh) G.W.Saunders	K. Dixon & J. Ferreira Costa	23.11.2014	South Africa	Western Cape	Miller's Point, False Bay	-34,23469	18,47538	KX783133	KX783058		KX808009
ABMMC20842-15	GWS036402			K. Dixon & J. Ferreira Costa	28.11.2014	South Africa	Western Cape	Off the end of Shelley Point, St Helena Bay	-32,70209	17,96662				KX808082
ABMMC20860-15	GWS036421			K. Dixon & J. Ferreira Costa	29.11.2014	South Africa	Western Cape	Elandsbaai beach	-32,31547	18,32469				KX808007
ABMMC20867-15	GWS036428			K. Dixon & J. Ferreira Costa	30.11.2014	South Africa	Western Cape	Clifton Point, Capetown	-33,94493	18,37229				KX807984
ABMMC20950-15	GWS036511		<i>Austrokallymenia</i> sp.1SAfr	K. Dixon & J. Ferreira Costa	14.12.2014	South Africa	KwaZulu-Natal	Aliwal Shoal, inner reef	-30,25021	30,81678		KX783053		
ABMMC10879-10	GWS002619		<i>Austrophyllis alcicornis</i> (J.Agardh) Womersley & Norris	G.W. Saunders	23.1.2005	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	JX296150	KF280985		
ABMMC4920-09	GWS000946		<i>Austrophyllis</i> sp.1Aus	G.W. Saunders	8.12.2000	Australia	South Australia	Port MacDonnell	-38,0579	140,6936	JX296149		KX783048	HM915890
OZSEA2134-11	GWS028815			G.W. Saunders	23.11.2011	Australia	South Australia	First Bay south of South Island, Pandowlie Bay, Yorke Peninsula	-35,23524	136,83116			KX783047	KX807988
ABMMC1390-07	CCMP719		<i>Austropugetia crassa</i> R.L.Moe ?	R. Moe		Antarctica		Astrolabe Needle, Antarctic Peninsula	-62,4099	-59,1346	JX296179	KC157625		KC157604
ABMMC19591-14	GWS001313		<i>Callophyllis atrosanguinea</i> (J.D.Hooker & Harvey) Hariot	A. Buschman	20.3.2001	Chile					JX296177	KX783084		
ABMMC534-06	GWS001315			A. Buschman	21.12.2000	Chile		Ancud Bay, Chiloe I.	-41,8697	-73,8203				KX807997
ABMMC340-06	GWS001161		<i>Callophyllis beringensis</i> Perestenko	G.W. Saunders	31.5.2001	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086	JX296169			JX034120
ABMMC15678-11	GWS014480			G.W. Saunders & K. Dixon	28.6.2011	Canada	British Columbia	Bamfield, Deadmans Cove (rocks out towards Kia Bay)	48,77602	-125,19829		KX783079		KM254635
ABMMC7085-10	GWS014808		<i>Callophyllis cervicornis</i> Sonder	G.T. Kraft & G.W. Saunders	13.1.2010	Australia	Victoria	Point Lonsdale Lighthouse Reef	-38,2933	144,6155				HM917415
ABMMC7105-10	GWS014829			G.T. Kraft & G.W. Saunders	13.1.2010	Australia	Victoria	Queenscliff Jetty, Port Phillip Heads	-38,2669	144,6678				HM917433
OZSEA2246-11	GWS028929			G.W. Saunders & K. Dixon	25.11.2011	Australia	South Australia	Reef in front of Chinamans Parking Lot, Yorke Peninsula	-35,28634	136,91376				KX808098

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OZSEA2247-11	GWS028930			G.W. Saunders & K. Dixon	25.11.2011	Australia	South Australia	Reef in front of Chinamans Parking Lot, Yorke Peninsula	-35,28634	136,91376				KX808016
OZSEA2686-11	GWS029579			G.W. Saunders & K. Dixon	16.11.2011	Australia	South Australia	Port MacDonnell	-38,0579	140,6936	KX783159	KX783114		KX808093
ABMMC329-06	GWS000506		<i>Callophyllis conceptionensis</i> Arakaki, Alveal, Ramirez & Fredericq	G.W. Saunders	14.12.1998	Chile		Ancud Bay, Chiloe I.	-41,8697	-73,8203	AY171607	KX783101		JX034423
TDCRH157-11	IN07.R034		<i>Callophyllis corollata</i> Baardseth	Sue Scott	29.11.2007	Saint Helena	Tristan da Cunha	East Point	-37,303	-12,64				KX808067
TDCRH161-11	IN07.R038			Sue Scott	29.11.2007	Saint Helena	Tristan da Cunha	East of Cave Rock	-37,315	-12,666				KX808011
TDCRH083-11	Nightingale 2010 033			S. Scott	22.3.2010	Saint Helena	Tristan da Cunha	Southwest Point, Nightingale	-37,433	-12,489	KX783139	KX783067		KX808032
TDCRH087-11	Nightingale 2010 037			Sue Scott	22.03.2010	Saint Helena	Tristan da Cunha	Southwest Point	-37,433	-12,489				KX808063
TDCRH108-11	Nightingale 2010 065			Sue Scott	23.03.2010	Saint Helena	Tristan da Cunha	West Landing	-37,416	-12,478				KX808061
TDCRH170-11	TR04.R06			Sue Scott	17.09.2004	Saint Helena	Tristan da Cunha	Stonybeach Bay	-37,16	-12,259				KX808018
TDCRH185-11	TR05.R37			Sue Scott	15.02.2005	Saint Helena	Tristan da Cunha	Between Rookery & West Jews Poiint	-37,064	-12,251				KX808069
TDCRH030-11	Tristan 2010 045			Sue Scott	30.03.2010	Saint Helena	Tristan da Cunha	Harbour to Puma Rock	-37,063	-12,313				KX808088
ABMMC6128-10	B062GWS		<i>Callophyllis crenulata</i> Setchell	Alison Henderson	28.5.1998	Canada	British Columbia	Cape Beale, Postelsia Pt., Bamfield	48,7895	-125,2163	AY171603			
ABMMC19982-14	GWS038603			K. Dixon & A. Savoie	14.7.2014	Canada	British Columbia	Rocks off the northeast corner of Murchison Island, Gwaii Haanas	52,61813	-131,43895		KX783045		KX807985

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ABMMC20188-14	GWS039064			G.W. Saunders & M. Bruce	15.7.2014	Canada	British Columbia	Nereocystis bed S of Yan, Haida Gwaii	54,05532	-132,23275				KX808095
ABMMC363-06	GWS001742		<i>Callophyllis dissecta</i> Setchell & Swezy	G.W. Saunders & C.E. Lane	25.5.2003	Canada	British Columbia	Five Mile Reef, Rennell Sound, Haida Gwaii	53,4211	-132,6	JX296152			JX034188
ABMMC339-06	GWS001145		<i>Callophyllis edentata</i> Kylin	G.W. Saunders	30.5.2001	Canada	British Columbia	Bamfield, Mud Cove	48,7914	-125,2134	AY171604	KC130228		JX034247
ABMMC3242-08	GWS003266		<i>Callophyllis flabellulata</i> Harvey	Jenn Provencher	17.9.2005	Canada	British Columbia	Bamfield, Wizard I.	48,8583	-125,1588	JX296165			JX034298
ABMMC1835-07	GWS004575			G.W. Saunders, B. Clarkston & D. McDevit	27.6.2006	Canada	British Columbia	Bamfield, Satellite Passage Reef	48,8626	-125,1764	JX296166			JX034285
ABMMC18378-13	GWS035643			G.W. Saunders & K. Dixon	14.8.2013	Canada	British Columbia	Lagoon Inlet Tidal Rapids (inside), Haida Gwaii	52,93449	-131,9491		KX783052		KU873101
	GWS001341		<i>Callophyllis heanophylla</i> Setchell	G.W. Saunders	1.5.2002	Canada	British Columbia	Bamfield, Blowhole at Bradys Beach	48,8241	-125,162	JX296171			
ABMMC15690-11	GWS028124			G.W. Saunders & K. Dixon	7.7.2011	Canada	British Columbia	Murchison Is., East End, Gwaii Haanas	52,60585	-131,43289		KX783110		JX034343
ABMMC11707-10	GWS018210		<i>Callophyllis japonica</i> Okamura in De Toni & Okamura	G.W. Saunders & H-G. Choi	20.5.2010	South Korea	Jeju	Rocky Reef at Lighthouse 'Point' Piyangdo Island	33,4198	126,2244				KX808030
ABMMC11242-10	GWS018629			G.W. Saunders & H-G. Choi	18.5.2010	South Korea	Jeju	Seongsan	33,46253	126,93842		KX783121		HQ544030
ABMMC4984-09	GWS001493		<i>Callophyllis lambertii</i> (Turner) J.Agardh	G.W. Saunders	27.11.2002	Australia	Tasmania	Devils Hole, south of Eaglehawk Neck	-43,0369	147,9478	JX296155	KX783091		
ABMMC10873-10	GWS002525			G.W. Saunders	16.1.2005	Australia	South Australia	Port MacDonnell	-38,0579	140,6936			KX783117	
ABMMC7542-10	GWS015363			F. Scott & C. Sanderson	21.1.2010	Australia	Tasmania	George III Reef	-43,50742	146,98469				HM917722
ABMMC7621-10	GWS015446			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917781
OZSEA4139-13	GWS034951			K.Dixon & R.Dixon	7.6.2013	Australia	South Australia	Elliston, inside of Point Wellington	-33,65276	134,88283	KX783155	KX783102		KX808080
ABMMC327-06	GWS000068		<i>Callophyllis linearis</i> (Kylin) I.A.Abbott & R.E.Norris	G.W. Saunders	22.7.1996	United States of America	California	Piedras Blancas	35,6704	121,2911	JX296151	KX783078		JX034356
ABMMC10756-10	GWS001309		<i>Callophyllis macrostiolata</i> Arakaki, Alveal, Ramirez & Fredericq	A. Buschman	21.12.2000	Chile		Ancud Bay, Chiloe I.	-41,8697	-73,8203	JX296178	KX783093		
ABMMC20662-14	GWS038162			M. Bruce	19.4.2014	Chile		Bahia de pumillahue	-41,94486	-74,03019				KX808043
OZSEA1864-10	GWS023786		<i>Callophyllis nana</i> A.J.K.Millar	G.W. Saunders & K. Dixon	25.11.2010	Australia	New South Wales	Split Rock, Lord Howe	-31,5836	159,06583				KX808034

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OZSEA3855-13	GWS032250			G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Policeman's Hat, Norfolk	-29,02496	167,99216		KX783089		
OZSEA3095-13	GWS032263			G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Policeman's Hat, Norfolk	-29,02496	167,99216	KX783149	KX783087		KX808059
OZSEA3093-13	GWS032497			G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Little Organ, Norfolk	-29,00254	167,95161				KX808036
ABMMC341-06	GWS001324		<i>Callophyllis pinnata</i> Setchell & Swezy	G.W. Saunders	28.4.2002	Canada	British Columbia	Bamfield, Blowhole at Bradys Beach	48,8241	-125,162	JX296167			JX034361
ABMMC15141-11	GWS027453			G.W. Saunders, K. Hind & B. Clarkston	4.5.2011	Canada	British Columbia	Boscowitz Rock	49,0111	-123,58661		KX783109		JX034364
KAMCH020-13	KAM0006		<i>Callophyllis radula</i> Perestenko	G.G. Zhigadlova	10.6.2013	Russian Federation	Kamchatka region	Eastern Kamchatka, Avacha Gulf, Starichkov Island	52,783	-158,617		KX783043		KU873098
ABMMC4988-09	GWS001511		<i>Callophyllis rangiferina</i> (Turner) Womersley	G.W. Saunders	28.11.2002	Australia	Tasmania	Arch Rock, south of Hobart	-43,2938	147,1352	JX296153			
ABMMC5033-09	GWS001914			G.W. Saunders & R. Withall	23.1.2004	Australia	Tasmania	Nine Pin Point	-43,2865	147,1643	JX296154			
ABMMC5127-09	GWS002427			G.W. Saunders	16.10.2004	Australia	Victoria	Flinders Jetty	-38,4667	145,0167				HM916010
ABMMC7163-10	GWS014906			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				KX808021
ABMMC7244-10	GWS014995			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				KX807993
ABMMC7253-10	GWS015007			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917534
ABMMC7335-10	GWS015103			G.W. Saunders & K. Dixon	19.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917586
ABMMC7796-10	GWS015851			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917908
ABMMC7749-10	GWS015597			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324		KX783051		HM917873
OZSEA2809-11	GWS029807			G.W. Saunders & K. Dixon	18.11.2011	Australia	South Australia	Post Office Rock (Salmon Hole side), Beachport	-37,4833	139,99814	KX783134			KX808010
ABMMC20738-14	GWS036240		<i>Callophyllis rhynchocarpa</i> Ruprecht	N. Klochkova	1.8.1993	Russia		Southern Sakhalin, Sea of Okhotsk			KX783145	KX783075		KU873108
	GWS000579		<i>Callophyllis schneideri</i> B.E.Clarkston & G.W.Saunders	G.W. Saunders	6.4.1999	Canada	British Columbia	Bamfield, Dixon I.	48,8524	-125,1224	AY171606			
ABMMC3249-08	GWS006428			D. McDevit, B. Clarkston, K. Roy & S. Hamsher	26.5.2007	Canada	British Columbia	Spring Bay	48,455806	-123,269028	JX296162			JX034404
ABMMC19646-14	GWS036713			G.W. Saunders, M. Bruce & G. Filloramo	13.5.2014	United States of America	Washington	Rosario Beach	48,41702	-122,66454				KX808060

Table S1. Collection details and GenBank accession numbers for all specimens from the Le Gall and Saunders laboratories used in this study (*continued*)

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ABMMC21141-15	GWS036843			G.W. Saunders, M. Bruce & T. Bringloe	13.7.2015	Canada	British Columbia	Macrocystis bed near Belle Pt., Skidegate Ch., Haida Gwaii	53,22433	-132,04552		KX783062		KX808025
ABMMC11797-10	GWS018328		<i>Callophyllis serratifolia</i> H.W.Lee & M.S.Kim	G.W. Saunders	21.5.2010	South Korea	Jeju	Gimnyeong	33,56534	126,73108		KX783054		KX807994
ABMMC11741-10	GWS018253		<i>Callophyllis</i> sp.1adhaerens	G.W. Saunders & H-G. Choi	20.5.2010	South Korea	Jeju	Rocky Reef at Lighthouse 'Point' Piyangdo Island	33,4198	126,2244				HQ544074
ABMMC11824-10	GWS018361			G.W. Saunders	21.5.2010	South Korea	Jeju	Gimnyeong	33,56534	126,73108				KX808083
ABMMC11907-10	GWS018558			G.W. Saunders & H-G. Choi	19.5.2010	South Korea	Jeju	Channel between Little & Big Munseom Islands	33,22751	126,56802				HQ544113
ABMMC11935-10	GWS018596			G.W. Saunders & H-G. Choi	20.5.2010	South Korea	Jeju	Rocky Reef at Lighthouse 'Point' Piyangdo Island	33,4198	126,2244		KX783085		KX808057
ABMMC4919-09	GWS000945		<i>Callophyllis</i> sp.1Aus	G.W. Saunders	8.12.2000	Australia	South Australia	Port MacDonnell	-38,0579	140,6936				HM915889
ABMMC10779-10	GWS001510			G.W. Saunders	28.11.2002	Australia	Tasmania	Arch Rock, south of Hobart	-43,2938	147,1352	JX296156			KX807983
ABMMC14495-10	GWS017383			G.T. Kraft & R. Kraft	25.4.2010	Australia	Victoria	Point Lonsdale, town beach	-38,2849	144,615				KX808041
OZSEA2377-11	GWS029066			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076				KX808024
OZSEA2674-11	GWS029567			G.W. Saunders & K. Dixon	16.11.2011	Australia	South Australia	Port MacDonnell	-38,0579	140,6936	KX783167	KX783128		KX808108
ABMMC12492-10	GWS022354		<i>Callophyllis</i> sp.1CAL	B. Clarkston, K. Hind & S. Toews	23.5.2010	United States of America	California	Monterey Bay (Shale Bed)	36,60943	-121,8786		KX783127		KM254955
ABMMC7420-10	GWS015223		<i>Callophyllis</i> sp.1rangiferina	G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883	KX783143	KX783071		HM917642
ABMMC7448-10	GWS015252			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917661
ABMMC7475-10	GWS015283			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				KX808031
ABMMC7727-10	GWS015570			G.T. Kraft & L. Kraft	22.1.2010	Australia	Tasmania	Nine Pin Point	-43,2865	147,1643				HM917857
ABMMC7733-10	GWS015581			G.T. Kraft & L. Kraft	22.1.2010	Australia	Tasmania	Nine Pin Point	-43,2865	147,1643				HM917861
ABMMC7758-10	GWS015807			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917878
ABMMC7760-10	GWS015809			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917879
ABMMC7762-10	GWS015811			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917880
ABMMC7766-10	GWS015815			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917883
ABMMC7844-10	GWS015907			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917936

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OZSEA4154-13	GWS034941			K.Dixon & R.Dixon	7.6.2013	Australia	South Australia	Elliston, inside of Point Wellington	-33,65276	134,88283				KX808033
ABMMC8167-10	GWS016364		<i>Callophyllis</i> sp.1WA	G.W. Saunders & K. Dixon	28.1.2010	Australia	Tasmania	Sanctuary Reef, Wynyard	-40,98593	145,7701				KX808000
ABMMC8284-10	GWS016516			G.W. Saunders, L. Kraft & K. Dixon	29.1.2010	Australia	Tasmania	Stanley Breakwater	-40,76731	145,30583				KX808052
ABMMC8303-10	GWS016543			G.W. Saunders, L. Kraft & K. Dixon	29.1.2010	Australia	Tasmania	Stanley Breakwater	-40,76731	145,30583				KX808066
OZSEA1876-10	GWS024969			G.W. Saunders & K. Dixon	10.11.2010	Australia	Western Australia	Cozy Corner (Knobby Pt.)	-34,25595	115,02777				KX808005
OZSEA601-10	GWS025001			G.W. Saunders & K. Dixon	10.11.2010	Australia	Western Australia	Cozy Corner (Knobby Pt.)	-34,25595	115,02777	KX783166	KX783126		KX808104
ABMMC11858-10	GWS018502		<i>Callophyllis</i> sp.2adhaerens	G.W. Saunders & H-G. Choi	19.5.2010	South Korea	Jeju	Channel between Little & Big Munseom Islands	33,22751	126,56802				KX808040
ABMMC11902-10	GWS018551			G.W. Saunders & H-G. Choi	19.5.2010	South Korea	Jeju	Channel between Little & Big Munseom Islands	33,22751	126,56802		KX783120		HQ544108
ABMMC16065-11	GWS028670		<i>Callophyllis</i> sp.2QC	G.W. Saunders & K. Dixon	11.7.2011	Canada	British Columbia	East side of Powrivo Bay, Gwaii Haanas	52,68761	-131,55226		KX783042		KM254226
ABMMC7415-10	GWS015215		<i>Callophyllis</i> sp.2rangiferina	G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917637
ABMMC7447-10	GWS015251			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917660
ABMMC7492-10	GWS015307			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917688
ABMMC8354-10	GWS016613			G.W. Saunders, L. Kraft & K. Dixon	2.2.2010	Australia	Victoria	The Springs, Point Lonsdale	-38,27605	144,62029				JX034355
ABMMC8419-10	GWS016691			G.W. Saunders, L. Kraft & K. Dixon	2.2.2010	Australia	Victoria	The Springs, Point Lonsdale	-38,27605	144,62029				HM918314
OZSEA2664-11	GWS029557			G.W. Saunders & K. Dixon	16.11.2011	Australia	South Australia	Port MacDonnell	-38,0579	140,6936	KX783154	KX783100		KX808079
OZSEA602-10	GWS025021		<i>Callophyllis</i> sp.2WA	G.W. Saunders & K. Dixon	10.11.2010	Australia	Western Australia	Cozy Corner (Knobby Pt.)	-34,25595	115,02777	KX783153	KX783099		KX808076
ABMMC7590-10	GWS015414		<i>Callophyllis</i> sp.3Aus	G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				KX808017
ABMMC7639-10	GWS015465			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917791

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ABMMC7647-10	GWS015474			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KX783136	KX783061		HM917796
ABMMC7957-10	GWS016064			G.W. Saunders & K. Dixon	26.1.2010	Australia	Tasmania	Lucas Point (past Hells Gates) Strahan	-42,1997	145,2008				HM918014
OZSEA2628-11	GWS029519		<i>Callophyllis</i> sp.3rangiferina	G.W. Saunders & K. Dixon	15.11.2011	Australia	Victoria	Nuns Beach under Lighthouse, Portland	-38,34245	141,6075				KX808003
OZSEA4153-13	GWS034973			K.Dixon & R.Dixon	8.6.2013	Australia	South Australia	Boston Point, north of Porth Lincoln	-34,63914	135,93301	KX783150	KX783090		KX808062
OZSEA1106-10	GWS025367		<i>Callophyllis</i> sp.3WA	G.W. Saunders & K. Dixon	13.11.2010	Australia	Western Australia	Pt. Peron	-32,27104	115,68169	KX783137	KX783064		KX808026
ABMMC3257-08	GWS008934		<i>Callophyllis thompsonii</i> Setchell	G.W. Saunders & B. Clarkston	20.9.2007	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086	JX296164			JX034425
ABMMC9622-10	GWS008938			G.W. Saunders & B. Clarkston	20.9.2007	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086		KX783069		HM918852
ABMMC6131-10	GWS001698		<i>Callophyllis variegata</i> (Bory) Kützing	G.W. Saunders & C.E. Lane	23.5.2003	Canada	British Columbia	Shields Island Bay, Rennell Sound, Haida Gwaii	53,4167	-132,75	JX296157			
ABMMC15695-11	GWS028196			G.W. Saunders & K. Dixon	7.7.2011	Canada	British Columbia	Murchison Is., Northwest Beach, Gwaii Haanas	52,60787	-131,4482		KF280964		KF280914
ABMMC3963-09	GWS012627		<i>Callophyllis variforma</i> Filloramo, Selivanova & G.W.Saunders	G.W. Saunders & D. McDevit	17.6.2009	Canada	British Columbia	Mazarredo Islands, NW of Masset, Haida Gwaii	54,09051	-132,55092	JX296158			HM915313
ABMMC18460-13	GWS035726			G.W. Saunders & K. Dixon	16.8.2013	Canada	British Columbia	Burnaby Narrows (S opening, in <i>Macrocystis</i> bed), Gwaii Haanas	52,33391	-131,33716		KX783112		KU873113
ABMMC10718-10	GWS001157		<i>Callophyllis violacea</i> J.Agardh	G.W. Saunders	31.5.2001	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086	AY171610			
ABMMC8920-10	GWS002279			G.W. Saunders	4.7.2004	Canada	British Columbia	Cape Beale, Postelsia Pt., Bamfield	48,7895	-125,2163				HM918474
ABMMC3252-08	GWS008689			G.W. Saunders, B. Clarkston, D. McDevit & K. Roy	16.6.2007	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086	JX296161			JX034439
ABMMC21135-15	GWS037015			G.W. Saunders, M. Bruce & T. Bringloe	16.7.2015	Canada	British Columbia	Marbel Island (east of usual dive), Haida Gwaii	53,20397	-132,66791		KX783083		KX808055

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ABMMC19969-14	GWS038590			K. Dixon & A. Savoie	14.7.2014	Canada	British Columbia	Rocks off the northeast corner of Murchison Island, Gwaii Haanas	52,61813	-131,43895				KX808106
ABMMC541-06	GWS000072		<i>Erythrophyllum delesserioides</i> J.Agardh	G.W. Saunders	22.7.1996	United States of America	California	Piedras Blancas	35,6704	121,2911	AF419123			GU140104
ABMMC12040-10	GWS021823			B. Clarkston, K. Hind	18.5.2010	United States of America	California	Jade Cove	35,91336	-121,46983		KF280974		KF280924
ABMMC1144-07	GWS001164		<i>Erythrophyllum oblongifractum</i> (Setchell) G.W.Saunders	G.W. Saunders	31.5.2001	Canada	British Columbia	Bamfield, Seapool Rock	48,8155	-125,2086	AY171613			GU140196
ABMMC20095-14	GWS038971			G.W. Saunders & M. Bruce	13.7.2014	Canada	British Columbia	Cape Knox, Haida Gwaii	54,187	-133,08355		KX783108		KX808086
ABMMC1427-07	GWS004863		<i>Erythrophyllum wynnei</i> (B.E.Clarkston & G.W.Saunders) G.W.Saunders	G.W. Saunders, B. Clarkston & D. McDevit	9.7.2006	Canada	British Columbia	Tree Knob Islands, Prince Rupert	54,2342	130,8036	JF833332			JF903286
ABMMC21132-15	GWS036870			G.W. Saunders, M. Bruce & T. Bringloe	14.7.2015	Canada	British Columbia	Cape Knox, Haida Gwaii	54,187	-133,08355		KX783106		KX808084
ABMMC14501-10	GWS017390		<i>Euhymenia australis</i> (Womersley & R.E.Norris) G.W.Saunders	G.T. Kraft, R. Kraft & B. Dog jr	18.5.2010	Australia	Victoria	Point Lonsdale, town beach	-38,2849	144,615	KF280956	KF280981		KF280934
OZSEA2256-11	GWS028939			G.W. Saunders & K. Dixon	25.11.2011	Australia	South Australia	Reef in front of Chinamans Parking Lot, Yorke Peninsula	-35,28634	136,91376				KF280926
REDEU437-11	LLG2434 (PC0152791)		<i>Euhymenia requienii</i> (J.Agardh) Kützing	L. Le Gall & Y. Turpin	24.10.2008	France	French Riviera	Cap des Armes, Porquerolles	42.9850000000	6.19243333		KJ083106		KJ083090
OZSEA279-10	GWS023568		<i>Euhymenia</i> sp.1LH	G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578	KF280963	KF280989		KF280942
OZSEA3639-13	GWS032249			G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Policeman's Hat, Norfolk	-29,02496	167,99216				KX808023
LAUWW001-16	MAD0466 (PC0166433)		<i>Euhymenia</i> sp.1Mada	F. Rousseau	10.05.2010	Madagascar	Anosy	Evatra	-24.9916666667	47.1	KX783162	KX783122		KX808099
OZSEA3772-13	GWS032271		<i>Euhymenia</i> sp.1Nor	G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Policeman's Hat, Norfolk	-29,02496	167,99216				KX808002
OZSEA3206-13	GWS032297			G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Simon's Water Flats	-29,02198	167,98567	KX783152	KX783096		KX808070
ABMMC1811-07	GWS005972		<i>Euhymenia</i> sp.1tasmanica	N. Barrett	20.1.2007	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KF280947	KF280967		KF280920
OZSEA1999-10	GWS022892		<i>Euhymenia</i> sp.2LH	G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659				KX808065
OZSEA1991-10	GWS022920			G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659				KX808071

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OZSEA1916-10	GWS023418			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578	KF280951	KF280976		KF280925
OZSEA272-10	GWS023423			G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578				KX808008
ABMMC8938-10	GWS002606		<i>Euhymenia</i> sp.2tasmanica	G.W. Saunders	23.1.2005	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KF280955	KF280980		HM918483
ABMMC7170-10	GWS014917		<i>Euhymenia</i> sp.3tasmanica	G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917479
ABMMC7189-10	GWS014936			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917494
ABMMC7190-10	GWS014937			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917495
ABMMC7192-10	GWS014939			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917497
ABMMC7193-10	GWS014940			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917498
ABMMC7201-10	GWS014949			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917501
ABMMC7202-10	GWS014950			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917502
ABMMC7211-10	GWS014961			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917508
ABMMC7212-10	GWS014962			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917509
ABMMC7236-10	GWS014986			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917520
ABMMC7254-10	GWS015008			G.W. Saunders & K. Dixon	18.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917535
ABMMC7281-10	GWS015044			G.W. Saunders & K. Dixon	19.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917551
ABMMC7283-10	GWS015046			G.W. Saunders & K. Dixon	19.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917553
ABMMC7284-10	GWS015047			G.W. Saunders & K. Dixon	19.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699				HM917554
ABMMC7296-10	GWS015059			G.W. Saunders & K. Dixon	19.1.2010	Australia	Tasmania	Windmill Point, George Town	-41,1097	146,81699	KF280945	KF280965		HM917563
ABMMC5031-09	GWS001909		<i>Euhymenia tasmanica</i> (Harvey) G.W.Saunders	G.W. Saunders & R. Withall	23.1.2004	Australia	Tasmania	Nine Pin Point	-43,2865	147,1643	JX296142			HM915947
ABMMC7583-10	GWS015407			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917756

Table S1. Collection details and GenBank accession numbers for all specimens from the Le Gall and Saunders laboratories used in this study (*continued*)

<i>BOLD</i>	<i>Voucher</i>	<i>Family</i>	<i>Species</i>	<i>Collectors</i>	<i>Date</i>	<i>Country</i>	<i>Province/ State</i>	<i>Site</i>	<i>Latitude</i>	<i>Longitude</i>	<i>LSU</i>	<i>rbcL</i>	<i>rbcL-3P</i>	<i>COI-5P</i>
ABMMC7644-10	GWS015471			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KF280954	KC157624		HM917794
ABMMC2262-08	GWS000026 (G0433)		<i>Euthora cristata</i> (C. Agardh) J.Agardh	G.W. Saunders	18.4.1996	Canada	New Brunswick	Maces Bay, Lepreau, Bay of Fundy	45,1093	-66,4817	AF419124	KM360027		GU140142
ABMMC10020-10	GWS014757			D. McDevit, M. Bruce	13.4.2010	United States of America	Massachusetts	Folly Cove, Gloucester left side	42,68502	-70,64148		KF280975		HM915057
ABMMC1642-07	GWS001340		<i>Euthora timburtonii</i> B.E.Clarkston & G.W.Saunders	G.W. Saunders	1.5.2002	Canada	British Columbia	Bamfield, Wizard I.	48,8583	-125,1588	GU176302			GU140180
ABMMC19848-14	GWS038463			G.W. Saunders, M. Bruce, K. Dixon & A. Savoie	8.7.2014	Canada	British Columbia	Opening to Kitgoro Inlet, Haida Gwaii	53,14233	-132,58485		KX783098		KX808075
ABMMC7489-10	GWS015304		<i>Glaphyrymenia pustulosa</i> J.Agardh	G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917685
ABMMC7738-10	GWS015586			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917865
ABMMC7743-10	GWS015591			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917868
ABMMC7744-10	GWS015592			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917869
ABMMC13027-10	GWS015624			F. Scott	17.5.2010	Australia	Tasmania	Arch Rock, Huon Estuary	-43,28744	147,17945		KX783065		KX808028
ABMMC14747-11	GWS015641			F. J. Scott	30.7.2010	Australia	Tasmania	Blackman's Bay Blowhole	-42,99948	147,32962				KC157606
ABMMC7794-10	GWS015848			G.W. Saunders & K. Dixon	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324				HM917906
ABMMC7858-10	GWS015923			G.T. Kraft & L. Kraft	23.1.2010	Australia	Tasmania	Tinderbox (Fiona's Point)	-43,05851	147,33324	KF280962	KF280988		HM917946
OZSEA1108-10	GWS024482		<i>Glaphyrymenia</i> sp.1WA	G.W. Saunders & K. Dixon	7.11.2010	Australia	Western Australia	Little Beach	-34,97163	118,19599	KF280946	KF280966		KF280918
OZSEA257-10	GWS022990		<i>Glaphyrymeniopsis mollis</i> Kraft & G.W.Saunders	G.W. Saunders, K. Dixon & R. Withall	22.11.2010	Australia	New South Wales	Roach Wall, Lord Howe	-31,49822	159,06557				KX808096
OZSEA261-10	GWS023027			G.W. Saunders, K. Dixon & R. Withall	22.11.2010	Australia	New South Wales	Roach Wall, Lord Howe	-31,49822	159,06557	KX783146	KX783076		KX808048
ABMMC1573-07	GWS001503		<i>Huonia sandersonii</i> G.W.Saunders	G.W. Saunders	28.11.2002	Australia	Tasmania	Arch Rock, south of Hobart	-43,2938	147,1352				KX807996
ABMMC1574-07	GWS001949			G.W. Saunders & R. Withall	24.1.2004	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	JX296146			KC157622

Table S1. Collection details and GenBank accession numbers for all specimens from the Le Gall and Saunders laboratories used in this study (*continued*)

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ABMMC8940-10	GWS002618			G.W. Saunders	23.1.2005	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM918485
ABMMC1582-07	GWS005969			N. Barrett	20.1.2007	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				KX808081
ABMMC1583-07	GWS005970			N. Barrett	20.1.2007	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				KX808049
ABMMC7544-10	GWS015365			F. Scott & C. Sanderson	21.1.2010	Australia	Tasmania	George III Reef	-43,50742	146,98469				HM917724
ABMMC7550-10	GWS015372			F. Scott & C. Sanderson	21.1.2010	Australia	Tasmania	George III Reef	-43,50742	146,98469				HM917729
ABMMC7554-10	GWS015377			N. Barrett	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				KX808006
ABMMC7556-10	GWS015379			N. Barrett	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917734
ABMMC7601-10	GWS015425			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917769
ABMMC7618-10	GWS015443			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257		KC157631		HM917780
ABMMC7655-10	GWS015482			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917802
REDEU158-11	LLG0376 (PC0152698)		<i>Kallymenia ercegovicii</i> Vergés & L.Le Gall	J. Utge & L. Le Gall	20.06.2007	Croatia	Croatia	Vis I.	43.0153000000	16.2257	KJ083047	KJ083101		KJ083047
REDEU457-11	LLG2166 (PC0152971)		<i>Kallymenia feldmannii</i> Codomier	L. Le Gall & Y. Turpin	19.10.2008	France	French Riviera	La Gabinière, Port-Cros	42.9875000000	6.397133	KJ083095	KJ083102		KJ083051
REDEU041-09	LLG2432 (PC0152792)		<i>Kallymenia patens</i> (J. Agardh) Codomier ex P.G. Parkinson	L. Le Gall & Y. Turpin	24.10.2008	France	French Riviera	Cap des Armes, Porquerolles	42.9850000000	6.19243333	KJ083097	KX783080		KJ083066

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<i>BOLD</i>	<i>Voucher</i>	<i>Family</i>	<i>Species</i>	<i>Collectors</i>	<i>Date</i>	<i>Country</i>	<i>Province/ State</i>	<i>Site</i>	<i>Latitude</i>	<i>Longitude</i>	<i>LSU</i>	<i>rbcL</i>	<i>rbcL-3P</i>	<i>COI-5P</i>
ABMMC10778-10	GWS001453		<i>Kallymenia reniformis</i> (Turner) J.Agardh	C.A. Maggs	25.9.2002	Ireland	Co. Donegal	Doaghbeg, Fanad Head	55,2764	-7,6344	GU176295			
REDEU070-09	LLG2684 (PC0162366)		<i>Kallymenia</i> sp.	L. Le Gall & J. Utge	08.06.2009	France	French Riviera	La Gabinière, Port-Cros	42.9883300000	6.39723	KX783160	KX783115		KJ083091
KALWW001-16	LLG2568 (PC0162423)		<i>Kallymenia</i> sp.	L. Le Gall & J. Utge	07.06.2009	France	French Riviera	Montremian, Port-Cros	43.0185700000	6.36381				KX807998
KALWW002-16	LLG3742 (PC0144834)		<i>Kallymenia</i> sp.	J. Utge & L. Le Gall	14.04.2011	Italy	Calabria	Scilla, Reggio Calabria	38.2556100000	15.713571				KX808092
ABMMC14856-11	GWS014632			M.D. Guiry	11.8.2010	Ireland	Kerry	Clougher Strand				KF280990		KF280943
OZSEA581-10	GWS023648		Kallymeniaceae sp.2LH	G.W. Saunders & K. Dixon	25.11.2010	Australia	New South Wales	Split Rock, Lord Howe	-31,5836	159,06583	KF280957	KF280982		KF280936
OZSEA1109-10	GWS025287		<i>Leiomenia cribrosa</i> (Harvey) Huisman & G.W.Saunders	G.W. Saunders & K. Dixon	13.11.2010	Australia	Western Australia	Pt. Peron	-32,27104	115,68169	KX783148	KX783086		KX808058
ABMMC19607-14	GWS036232		<i>Leiomenia imbricata</i> Huisman & G.W.Saunders	J. Huisman	5.10.2013	Australia	Western Australia	Hibernia Reef, south east side	-11,97605	123,38967	KX783141	KX783070		KX808037
ABMMC19008-13	GWS037702			G.W. Saunders & K. Dixon	4.12.2013	Australia	Cocos (Keeling) Islands	Cologne Gardens, south of Horsburgh Island	-12,08291	96,83329				KX808056
ABMMC19009-13	GWS037704			G.W. Saunders & K. Dixon	4.12.2013	Australia	Cocos (Keeling) Islands	Cologne Gardens, south of Horsburgh Island	-12,08291	96,83329				KX808074
ABMMC19011-13	GWS037741			G.W. Saunders & K. Dixon	5.12.2013	Australia	Cocos (Keeling) Islands	Winter Wall, south of Horsburgh Island	-12,08788	96,83701				KX807995
ABMMC19603-14	GWS036220		<i>Leiomenia lacunata</i> Huisman & G.W.Saunders	J. Huisman	26.9.2013	Australia	Western Australia	Ashmore Reef, northern channel	-12,21418	123,02014	KX783158	KX783113		KX808091
ABMMC21578-15	GWS039105				7.6.2015	Australia		Coral Bay (Manta Ray Tour)						KX808089
ABMMC20663-14	GWS040495				26.6.2014	Australia		Coral Bay (Manta Ray Tour)				KX783094		
OZSEA1111-10	GWS022819		<i>Leiomenia</i> sp.1LH	G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659				KX808020
OZSEA1112-10	GWS022820			G.W. Saunders, K. Dixon & R. Withall	21.11.2010	Australia	New South Wales	Malabar Reef, Lord Howe I.	-31,51119	159,05659	KF280961	KF280987		KF280940
OZSEA1120-10	GWS023758			G.W. Saunders & K. Dixon	25.11.2010	Australia	New South Wales	Split Rock, Lord Howe	-31,5836	159,06583			KX783092	
OZSEA3186-13	GWS034383		<i>Leiomenia</i> sp.1NOR	G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Duncombe Bay, Norfolk	-28,99951	167,93155	KX783165	KX783125		KX808102
ABMMC4889-09	GWS000466		<i>Leiomenia</i> sp.2cribrosa	G.W. Saunders & G.T. Kraft	1.11.1998	Australia	South Australia	Vivonne Bay, Kangaroo I.	-36,0002	137,2027	KF280953	KF280978		KF280930
TDCRH138-11	IN07.R013		<i>Leniea kylinii</i> (Baardseth) G.W.Saunders	S. Scott	25.11.2007	Saint Helena	Tristan da Cunha	Dirleton Point, Inaccessible	-37,308	-12,708				KX808090

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TDCRH032-11	Tristan 2010 047			S. Scott	30.3.2010	Saint Helena Ascension and Tristan da Cunha	Tristan da Cunha	Harbour to Puma Rock, Tristan	-37,063	-12,313	KX783147	KX783077		KX808051
ABMMC19024-13	GWS037826		<i>Meredithia compaginata</i> G.W.Saunders	G.W. Saunders & K. Dixon	10.12.2013	Australia	Cocos (Keeling) Islands	North (800 m) of Blue Holes (inner lagoon east)	-12,09489	96,88119				KX808103
ABMMC19025-13	GWS037827			G.W. Saunders & K. Dixon	10.12.2013	Australia	Cocos (Keeling) Islands	North (800 m) of Blue Holes (inner lagoon east)	-12,09489	96,88119				KX808012
ABMMC19026-13	GWS037854			G.W. Saunders & K. Dixon	9.12.2013	Australia	Cocos (Keeling) Islands	Blue Holes (inner lagoon east)	-12,15365	96,88007				KX808087
ABMMC19027-13	GWS037855			G.W. Saunders & K. Dixon	9.12.2013	Australia	Cocos (Keeling) Islands	Blue Holes (inner lagoon east)	-12,15365	96,88007				KX808027
ABMMC19028-13	GWS037856			G.W. Saunders & K. Dixon	9.12.2013	Australia	Cocos (Keeling) Islands	Blue Holes (inner lagoon east)	-12,15365	96,88007	KX783163	KX783123		KX808100
ABMMC547-06	GWS001247		<i>Meredithia crenata</i> C.W. Schneider, C.E. Lane & G.W.Saunders	G.W. Saunders	12.11.2001	Bermuda		Walsingham Pond	32,3481	-64,7102	AY171612	KC157632		KC157617
OZSEA1130-10	GWS023411		<i>Meredithia guiryorum</i> G.W.Saunders & C.W. Schneider	G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578	KC157650	KC157628		KC157607
OZSEA1919-10	GWS023522		<i>Meredithia kraftii</i> G.W.Saunders & C.W. Schneider	G.W. Saunders, K. Dixon & R. Withall	24.11.2010	Australia	New South Wales	Algae Hole North, Lord Howe	-31,56191	159,06578	KC157652	KC157630		KC157613
REDEU248-11	LLG1447 (PC0152255)		<i>Meredithia microphylla</i> (J.Agardh) J.Agardh	L. Le Gall	7.12.2008	France	Ille-et-Vilaine, Brittany	Les haies de la conchée, Saint- Malo	48,6883	-2,048697	KC157656			KC157621
REDEU278-11	LLG1538 (PC0152257)			L. Le Gall	14.07.2008	France	Ille-et-Vilaine, Brittany	Les Buharats, Saint-Malo	48,6672	-2,11805		KC157626		KC157605
OZSEA2176-11	GWS028859		<i>Meredithia nana</i> J.Agardh	K. Dixon	23.11.2011	Australia	South Australia	Shell Bay, Yorke Peninsula	-35,1924	136,87222	KF280952	KF280977		KF280927
OZSEA3204-13	GWS032281		<i>Meredithia norfolkensis</i> G.W.Saunders & C.W. Schneider	G.W. Saunders & K. Dixon	30.11.2012	Australia	Norfolk Island	Simon's Water Flats	-29,02198	167,98567	KF280949	KF280971		KF280922
OZSEA3201-13	GWS032241		<i>Meredithia nutleorum</i> G.W.Saunders & C.W. Schneider	G.W. Saunders & K. Dixon	29.11.2012	Australia	Norfolk Island	Fish Bowl, Nepean I., Norfolk	-29,07178	167,96742	KF280948	KF280969		KF280921
ABMMC7470-10	GWS015278		<i>Meredithia opuntiooides</i> G.W.Saunders & C.W. Schneider	G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883	KC157655	KC157635		HM917677
OZSEA1676-10	GWS025546		<i>Meredithia pseudopeltata</i> G.W.Saunders & C.W. Schneider	G.W. Saunders & K. Dixon	17.11.2010	Australia	Western Australia	Ricey Beach, Rottneest I.	-32,00016	115,49003	KF280959	KF280984		KF280937
ABMMC14691-11	GWS025842		<i>Meredithia</i> sp.1Phil	K. Dixon	11.12.2010	Philippines	Oriental Mindoro	South Balatatan	12,294681	121,382664	KC157651	KC157629		KC157609
ABMMC20949-15	GWS036510		<i>Meredithia</i> sp.1SAfr	K. Dixon & J. Ferreira Costa	14.12.2014	South Africa	KwaZulu-Natal	Aliwal Shoal, inner reef	-30,25021	30,81678	KX783151	KX783095		KX808068
OZSEA1923-10	GWS025460		<i>Meredithia</i> sp.1WA	G.W. Saunders & K. Dixon	13.11.2010	Australia	Western Australia	Pt. Peron	-32,27104	115,68169	KC157654	KC157634		KC157619

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ABMMC20769-15	GWS036327		<i>Meredithia</i> sp.2SAfr	K. Dixon & J. Ferreira Costa	22.11.2014	South Africa	Western Cape	Oudekraal	-33,98655	18,34798	KX783140	KX783068		KX808035
OZSEA1046-10	GWS025159		<i>Meredithia</i> sp.2WA	G.W. Saunders & K. Dixon	11.11.2010	Australia	Western Australia	Canal Rocks	-33,66935	114,99531	KC157653	KC157633		KC157618
ABMMC521-06	GWS001792		<i>Metacallophyllis laciniata</i> (Hudson) Verges & Le Gall	G.W. Saunders	24.7.2003	United Kingdom	Northern Ireland	Strangford Lough (stern of wreck), Portaferry	54,3833	-5,55				JF903294
KALLN001-10	GWS001795			G.W. Saunders	24.7.2003	United Kingdom	Northern Ireland	Strangford Lough (stern of wreck), Portaferry	54,3833	-5,55	JF833333			
ABMMC17950-13	GWS001835			G.W. Saunders	29.7.2003	Ireland	Co. Galway	Coral Strand, Carraloe (Carraroe)	53,2656	-9,5836		KF280968		
PNMIA348-14	RMAR1318		<i>Nothokallymenia crouaniorum</i> (A.Vergés & L.Le Gall) A.Vergés & L.Le Gall	L. Le Gall & Y. Turpin	10.03.2011	France	Brittany	Pointe Saint Mathieu	48,3277	-4,752183	KJ961365	KM896877		
REDEU573-11	LLG2712 (PC0162235)		<i>Nothokallymenia</i> sp1	L. Le Gall & J. Utge	08.06.2009	France	French Riviera	La Gabinière, Port-Cros	42.9883300000	6.39723	KX783132	KX783049		
REDEU609-11	LLG2876 (PC0162589)		<i>Nothokallymenia</i> sp2	L. Le Gall & J. Utge	10.06.2009	France	French Riviera	La Gabinière, Port-Cros	42.9871800000	6.39399	KX783138	KX783066		KJ083048
REDEU610-11	LLG2879 (PC0162193)		<i>Nothokallymenia</i> sp3	L. Le Gall & J. Utge	10.06.2009	France	French Riviera	La Gabinière, Port-Cros	42.9871800000	6.39399	KX783168	KX783129		
ABMMC7384-10	GWS015178		<i>Polycoelia fastigiata</i> Harvey	G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883	KX783156	KX783104		HM917619
ABMMC20840-15	GWS036400		<i>Polycoelia harveyana</i> (J.Agardh) G.W.Saunders	K. Dixon & J. Ferreira Costa	28.11.2014	South Africa	Western Cape	Off the end of Shelley Point, St Helena Bay	-32,70209	17,96662	KX783135	KX783059		KX808013
ABMMC5030-09	GWS001906		<i>Polycoelia laciniata</i> J.Agardh	G.W. Saunders & R. Withall	23.1.2004	Australia	Tasmania	Nine Pin Point	-43,2865	147,1643	JX296144	KF280983		KT307606
ABMMC7436-10	GWS015239			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917653
ABMMC7485-10	GWS015300			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				KX808073
ABMMC7518-10	GWS015338			G.W. Saunders & K. Dixon	21.1.2010	Australia	Tasmania	Burying Ground Point	-43,44013	146,98883				HM917704
ABMMC7695-10	GWS015527			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KF280958			HM917832
OZSEA2845-11	GWS029846			R. Dixon	18.11.2011	Australia	South Australia	Cape Dombey Jetty, Robe	-37,15777	139,74953				KX808072
ABMMC11712-10	GWS018217		<i>Psaromenia</i> sp.1Jeju	G.W. Saunders & H-G. Choi	20.5.2010	South Korea	Jeju	Rocky Reef at Lighthouse 'Point' Piyangdo Island	33,4198	126,2244				KC157603
ABMMC11730-10	GWS018239			G.W. Saunders & H-G. Choi	20.5.2010	South Korea	Jeju	Rocky Reef at Lighthouse 'Point' Piyangdo Island	33,4198	126,2244	KC157657	KC157636		KC157623

Table S1. Collection details and GenBank accession numbers for all specimens from the Le Gall and Saunders laboratories used in this study (*continued*)

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ABMMC5092-09	GWS002058		<i>Psaromenia</i> sp.1LH	G.W. Saunders	1.2.2004	Australia	New South Wales	Leeward side of Balls Pyramid, Lord Howe I.	-31,7269	159,2582	JX296141	KC157627		HM915984
	B057GWS		<i>Pugetia cryptica</i> B.E.Clarkston & G.W.Saunders	G.W. Saunders	14.5.1998	Canada	British Columbia	Bamfield, Diana I.	48,8325	-125,1863	AY171614			
ABMMC6903-10	GWS010409			B. Clarkston, D. McDevit & K. Hind	29.5.2008	Canada	British Columbia	Savoie Rocks, Hornby Island	49,50564	-124,69978		KX783044		HM917271
ABMMC1409-07	GWS004335		<i>Pugetia fragilissima</i> Kylin	G.W. Saunders, B. Clarkston & D. McDevit	24.6.2006	Canada	British Columbia	Bamfield, Dixon I.	48,8524	-125,1224	JF833330			JF903311
ABMMC4359-09	GWS013405			G.W. Saunders & D. McDevit	23.6.2009	Canada	British Columbia	Burnaby (Dolomite) Narrows, Gwaii Haanas	52,35993	-131,35201		JX969789		HM915628
ABMMC7593-10	GWS015417		<i>Rhipidomenia polycoelioides</i> (J.Agardh) G.W.Saunders	G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917762
ABMMC7598-10	GWS015422			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KF280950	KF280972		HM917766
ABMMC7599-10	GWS015423			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917767
ABMMC7600-10	GWS015424			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917768
ABMMC7615-10	GWS015439			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917779
	LLG0645		<i>Rhytymenia cerebriformis</i> (N'Yeurt & Payri) L.Le Gall & Vergés	C. Payri & L. Le Gall	30.10.2007	New Caledonia	Province sud	Bourail-Le Cap Goulvain	-21,74966	165,47659		KU568458		KU568457
ABMMC19604-14	GWS036221		<i>Rhytymenia maculata</i> (Weber-van Bosse) Huisman & G.W.Saunders	J. Huisman	27.9.2013	Australia	Western Australia	Ashmore Reef, north side	-12,18392	123,10063				KU575892
ABMMC19606-14	GWS036229			J. Huisman	3.10.2013	Australia	Western Australia	Ashmore Reef, east side	-12,20775	123,14563	KU565724	KU565725		KU565723
ABMMC550-06	GWS000501		<i>Salishia chilensis</i> (J.Agardh) B.E.Clarkston & G.W.Saunders	G.W. Saunders & E. Martinez	14.12.1998	Chile		Ancud Bay, Chiloe I.	-41,8697	-73,8203	AY171602			JF903345

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ABMMC20665-14	GWS038130			M. Bruce	14.4.2014	Chile		Bonifacio	-39,69365	-73,38219		KX783060		KX808015
ABMMC551-06	B063		<i>Salishia firma</i> (Kyllin) B.E.Clarkston & G.W.Saunders	G.W. Saunders	31.5.1998	Canada	British Columbia	Bamfield, Dixon I.	48,8524	-125,1224	AY171605			JF903365
ABMMC20004-14	GWS038625			K. Dixon & A. Savoie	14.7.2014	Canada	British Columbia	Rocks off the northeast corner of Murchison Island, Gwaii Haanas	52,61813	-131,43895		KX783050		KX807991
ABMMC417-06	GWS003082		<i>Salishia sanguinea</i> (Montagne) B.E.Clarkston & G.W.Saunders	Michelle Spani & G.W. Saunders	15.6.2005	Canada	British Columbia	Bamfield, Satellite Passage Reef	48,8626	-125,1764	JF833328			JF903406
ABMMC21164-15	GWS036872			G.W. Saunders, M. Bruce & T. Bringlee	14.7.2015	Canada	British Columbia	Cape Knox, Haida Gwaii	54,187	-133,08355		KX783082		KX808053
ABMMC4991-09	GWS001520		<i>Stauromenia lacerata</i> (Womersley & Norris) G.W.Saunders	C. Sanderson	28.11.2002	Australia	Tasmania	Arch Rock, south of Hobart	-43,2938	147,1352	JX296176			HM915923
ABMMC8133-10	GWS016326			G.W. Saunders & K. Dixon	28.1.2010	Australia	Tasmania	Sanctuary Reef, Wynyard	-40,98593	145,7701				HM918158
OZSEA1897-10	GWS025091			G.W. Saunders & K. Dixon	11.11.2010	Australia	Western Australia	Canal Rocks	-33,66935	114,99531		KF280979		KF280931
OZSEA2101-10	GWS025137			G.W. Saunders & K. Dixon	11.11.2010	Australia	Western Australia	Canal Rocks	-33,66935	114,99531				KX808050
OZSEA1899-10	GWS025185			G.W. Saunders & K. Dixon	11.11.2010	Australia	Western Australia	Canal Rocks	-33,66935	114,99531				Data messy and not submitted to GenBank; ID only.
OZSEA2157-11	GWS028838			K. Dixon	23.11.2011	Australia	South Australia	Chinamans Hat Island, Yorke Peninsula	-35,28601	136,91846			KX783116	
OZSEA2388-11	GWS029077			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076			KX783103	
OZSEA2389-11	GWS029078			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076				KX808029
OZSEA2403-11	GWS029094			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076				KX807990
OZSEA2404-11	GWS029095			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076				KX807992
OZSEA2405-11	GWS029096			G.W. Saunders & K. Dixon	26.11.2011	Australia	South Australia	South Island Reef, Pondalowie Bay, Yorke Peninsula	-35,23458	136,83076				KX808046
ABMMC4815-09	G0412		<i>Stauromenia</i> sp.1Aus	G.T. Kraft & G.W. Saunders	11.11.1995	Australia	Western Australia	Coral Patches, Abrolhos I.	-28,8567	114,015	JX296175	KU381815		HM915835

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ABMMC5067-09	GWS002016		<i>Thalassiodianthus incrassatus</i> G.W.Saunders & Kraft	R. Withall	30.1.2004	Australia	New South Wales	North Head Gutters, Lord Howe I.	-31,515	159,0344				HM915965
ABMMC5091-09	GWS002056			R. Withall	1.2.2004	Australia	New South Wales	Islands off Balls Pyramid, Lord Howe I.	-31,8079	159,25	JX296145	KF280970		
OZSEA3199-13	GWS032486			G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Little Organ, Norfolk	-29,00254	167,95161			KX783105	
OZSEA3188-13	GWS032487			G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Little Organ, Norfolk	-29,00254	167,95161			KX783097	
OZSEA3196-13	GWS034310			G.W. Saunders & K. Dixon	27.11.2012	Australia	Norfolk Island	Little Organ, Norfolk	-29,00254	167,95161				KT307586
ABMMC20767-15	GWS036325		<i>Thamnophyllis discigera</i> (J.Agardh) R.E.Norris	K. Dixon & J. Ferreira Costa	22.11.2014	South Africa	Western Cape	Oudekraal	-33,98655	18,34798	KX783144	KX783073		KX808045
ABMMC20783-15	GWS036341		<i>Thamnophyllis pocockiae</i> R.E.Norris	K. Dixon & J. Ferreira Costa	23.11.2014	South Africa	Western Cape	Miller's Point, False Bay	-34,23469	18,47538	KX783157	KX783107		KX808085
GRHOD024-10	KZN1890		<i>Thamnophyllis</i> sp.1SAfr			South Africa							KX783142	HQ956778
ABMMC7559-10	GWS015382		<i>Tythomenia barrettii</i> G.W.Saunders	N. Barrett	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917737
ABMMC7568-10	GWS015391			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917744
ABMMC7675-10	GWS015503			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257				HM917816
ABMMC7677-10	GWS015505			G.W. Saunders & K. Dixon	22.1.2010	Australia	Tasmania	Reef west of Verona Sands boat launch, in mouth of Huon River	-43,275	147,1257	KX783164	KX783124		KX808101
ABMMC18912-13	GWS037700		<i>Verlaquea fimbriata</i> G.W.Saunders	G.W. Saunders & K. Dixon	4.12.2013	Australia	Cocos (Keeling) Islands	Cologne Gardens, south of Horsburgh Island	-12,08291	96,83329				KX808042
ABMMC18914-13	GWS037721			K. Dixon & G.W. Saunders	4.12.2013	Australia	Cocos (Keeling) Islands	Cologne Gardens, south of Horsburgh Island	-12,08291	96,83329	KX783169	KX783130		KX808109
REDEU099-09	LLG2872 (PC0162587)		<i>Verlaquea lacerata</i> (Feldmann) L.Le Gall & A.Vergès	L. Le Gall & J. Utge	10.06.2009	France	French Riviera	La Gabinière, Port-Cros	42.9871800000	6.39399	KJ083096	KJ083103		KJ083058
ABMMC10484-10	6091Ballantine	Rhizophyllidaceae	<i>Contarinia</i> sp._uncertain	D. Ballantine & H. Ruiz	14.1.2004	Puerto Rico		Punta Brea, Guanica	17,9099	-66,9408	KC130244	KC130224		