

# Supplementary Materials

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**Supplementary Table S1.** The representative sequence datasets of *Umbraulva* and *Ulva* from GenBank including outgroups

Species	Country	GenBank accession No.				
		<i>rbcL</i>	<i>tufA</i>	18 rRNA	28S rRNA	ITS
<i>Umbraulva amamiensis</i> (Tanaka) Bae & I. K. Lee	Japan (1)	AB097614	-	-	-	AB097640
	Japan (2)	LC507131	LC507140	LC507147	LC507153	LC507160
<i>Umbraulva japonica</i> (Holmes) Bae & I. K. Lee	Japan (1)	AB097612	-	-	-	AB097638
	Japan (2)	LC507134	LC507141	-	LC507154	-
<i>Umbraulva dangeardii</i> M. J. Wynne & G. Furnari	Ireland	EU484411	-	-	-	-
	France	LC507133	-	-	-	-
<i>Umbraulva kaloakulau</i> Spalding & Sherwood	USA	KT932991	KT932973	-	-	KT881216
<i>Umbraulva</i> sp.	New Zealand (1)	EF110497	-	-	-	-
	New Zealand (2)	EF110504	-	-	-	-
	New Zealand (3)	EF110288	-	-	-	-
	Australia (4)	JN029249	JN029348	-	-	-
<i>Ryuguphycus kuaweuweu</i> (Spalding & Sherwood) H. Kawai, T. Hanyuda & T. Kitayama	USA	KT932987	KT932969	-	-	KT881220
	Japan (1)	LC507123	LC507136	LC507143	LC507149	LC507156
	Japan (2)	LC507127	LC507137	LC507144	LC507150	LC507157
<i>Ulva adhaerens</i> Matsumoto & Shimada	Japan (1)	AB894327	-	-	-	AB894334
	Japan (2)	AB894328	-	-	-	-
<i>Ulva aragoënsis</i> (Bliding) Maggs	Israel	MG704815	MG976875	-	-	-
<i>Ulva arasakii</i> Chihara	Japan	AB097621	-	-	-	AB097650
<i>Ulva australis</i> Areschoug	Korea	MT624966	MT625139	-	-	-
	Japan	AB097628	-	-	-	AB097658
<i>Ulva brisbanensis</i> L. G. Kraft, Kraft & R. F. Waller	Australia	EU933945	-	-	-	EU933972
<i>Ulva californica</i> Wille	Canada	HQ603390, HQ603514	HQ610279	-	HQ603272	-
<i>Ulva chaugulii</i> Kavale & Kazi	Israel	MG704805	MG976863	-	-	-
<i>Ulva compressa</i> Linnaeus	Canada	HQ603394, HQ603521	HQ610285	-	HQ603276	-
<i>Ulva expansa</i> (Setchell) Setchell & Gardner	USA	MH731009	MH731007	-	-	-
	USA	AY255868	-	-	-	AY260563
<i>Ulva fenestrata</i> Postels & Ruprecht	Russia	MK456393	MK456404	-	-	-
<i>Ulva iliohaha</i> Spalding & Sherwood	USA	KT932995	KT932976	-	-	KT881223
	Japan	LC507130	LC507138	LC507145	LC507151	LC507158
<i>Ulva intestinalis</i> Linnaeus	Canada	HQ603401, HQ603542	HQ610306	-	HQ603283	-
<i>Ulva lactuca</i> Linnaeus	Korea	MT624880	MT625050	-	-	-
<i>Ulva laetevirens</i> Areschoug	Korea	MT624923	MT625100	-	-	-
<i>Ulva linza</i> Linnaeus	Canada	HQ603413, HQ603603	HQ610368	-	-	-
<i>Ulva ohiohilulu</i> Spalding & Sherwood	USA (1)	KT932996	KT932978	-	-	-
	USA (2)	-	KT932977	-	-	KT881224
<i>Ulva ohnoi</i> Hiraoka & Shimada	Korea	MT624798	MT624972	-	-	-
	Japan	AB116040	-	-	-	AB116034
<i>Ulva procera</i> Hayden et al.	Canada	HQ603420, HQ603628	HQ610392	-	HQ603299	-
<i>Ulva pseudohnoi</i> H. W. Lee, J. C. Kang & M. S. Kim	Korea	MT624855	MT625027	-	-	-
<i>Ulva pseudorotundata</i> Cormaci, G. Furnari & Alongi	Ireland	EU484401	-	-	-	-
<i>Ulva tepida</i> Masakiyo & Shimada	Israel	MG704820	MG976864	-	-	-
<i>Ulvaria obscura</i> (Kützting) Gayral ex Bliding	Canada	HQ603436, HQ603651	HQ610415	-	HQ603312	-
<i>Ulvaria obscura</i> var. <i>blyttii</i> (Areschoug) Bliding	USA	-	-	AF499657	-	AY260571
<i>Ulvaria splendens</i> (Ruprecht) K. L. Vinogradova	Japan	-	LC507139	LC507146	LC507152	LC507159
<i>Percursaria percursa</i> (C. Agardh) Rosenvinge	USA	-	-	AF499658	-	AY260570