

Supporting Information

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Table S1. GenBank accession numbers of DNA sequences used in the broad-scale analyses

Species	atpB	psaA	psaB	psbC	rbcl	18S
<i>Aribidopsis thaliana</i>	NC000932	NC000932	NC000932	NC000932	NC000932	X16077
<i>Astrephomene gubernaculifera</i>	AB014022–3	AB044233–4	AB044458	AB044513–4	D63428	
<i>Bangiopsis subsimplex</i>		AY119700	AY391382		AY119772	AF168627
<i>Basichlamys sacculifera</i>	AB014015	AB044416	AB044467–8	AB044526	D63430	
<i>Cabomba caroliniana</i>	AF187058			AF123815	M77027	AF096691
<i>Carteria crucifera</i>	AB084320		AB084358		D63431	D86501
<i>Chaetospheridium globosum</i>	NC004115	NC004115	NC004115	NC004115	NC004115	AF113506
<i>Chlamydomonas debaryana</i>	AB014034	AB044417–8	AB044469	AB044527	D86838	AF008240
<i>C. moewusii</i>	AB014035		AB084355		M15842	U41174
<i>C. reinhardtii</i>	NC005353	NC005353	NC005353	NC005353	NC005353	AY665726
<i>Chlorella vulgaris</i>	NC001865	NC001865	NC001865	NC001865	NC001865	AB162910
<i>Compsopogon coeruleus</i>		AY119701	AY391375	AY876203	AF087116	AF342748
<i>Cyanophora paradoxa</i>	NC001675	NC001675	NC001675	NC001675	NC001675	AY823716
<i>Eudorina elegans</i>	AB014010	AB044200–1	AB044436–7	AB044486	D88805	
<i>E. unicocca</i>	AB014007	AB044207–9	AB044440	AB044491–2	D63434	
<i>Gonium pectorale</i>	AB014016–7	AB044242	AB044463	AB044521	D63437	
<i>Gracilaria tenuistipitata</i>	NC006137	NC006137	NC006137	NC006137	NC006137	DQ316995
<i>Marchantia polymorpha</i>	NC001319	NC001319	NC001319	NC001319	NC001319	AB021684
<i>Mesostigma viride</i>	NC002186	NC002186	NC002186	NC002186	NC002186	AJ250109
<i>Nymphaea alba</i>	NC006050	NC006050	NC006050	NC006050	NC006050	
<i>Oltmannsiellopsis viridis</i>	NC008099	NC008099	NC008099	NC008099	NC008099	D86495
<i>Ostreococcus tauri</i>	NC008289	NC008289	NC008289	NC008289	NC008289	Y15814
<i>Palmaria palmata</i>		AY119711	AY391391	AY876211	U28421	Z14142
<i>Pandorina morum</i>	AB044180	AB044231	AB044456	AB044510–1	AB044167	
<i>Paulschulzia pseudovolvox</i>	AB014040	AB044422–3	AB044473	AB044531–2	D86837	AF408246
<i>Pinus luchuensis</i>						D38246
<i>P. thunbergii</i>	NC001631	NC001631	NC001631	NC001631	NC001631	
<i>Platydorina caudata</i>	AB014032	AB044211–2	AB044442	AB044494	D86828	
<i>Pleodorina californica</i>	AB014004	AB044190–2	AB044430	AB044480	D63439	FJ610145
<i>P. indica</i>	AB014006	AB044195–7	AB044432–3	AB044483	D86834	
<i>P. starrii</i>	AB214424	AB214430	AB214432	AB214434	AB214427	
<i>P. thompsonii</i>	AB214407	AB214410–11	AB214412	AB214413	AB214408	
<i>Porphyra yezoensis</i>	NC007932	NC007932	NC007932	NC007932	NC007932	D79976
<i>Porphyridium aeruginium</i>		AY119705	AY391385	AY876209	AY119775	AF168623
<i>Pseudendozonium akinetum</i>	NC008114	NC008114	NC008114	NC008114	NC008114	DQ011230
<i>Psilotum nudum</i>	NC003386	NC003386	NC003386	NC003386	NC003386	X81963
<i>Rhodella violacea</i>		AY119706	AY391386	DQ308461	AY119776	AF168624
<i>Stigeoclonium helveticum</i>	NC008372	NC008372	NC008372	NC008372	NC008372	U83131
<i>Tetrabaena socialis</i>	AB014014	AB044415	AB044466	AB044525	D63443	AB278626
<i>Triticum aestivum</i>	NC002762	NC002762	NC002762	NC002762	NC002762	AY049040
<i>Vitreochlamys aulata</i>	AB076122	AB076144	AB076159	AB076178–80	AB050492	
<i>Volvox africanus</i>	AB076114	AB076137	AB076152	AB076167	AB076101	
<i>V. aureus</i>	AB076104	AB076123	AB076145	AB076160	AB076096	
<i>V. barberi</i>	AB014001	AB044186	AB044427	AB044477	D86835	
<i>V. carteri</i> f. <i>nagariensis</i>	AB076108–9	AB076127–8	AB076148	AB076163	AB076099	X53904
<i>V. gigas</i>	AB076112	AB076131–2	AB076150	AB076165	AB076084	
<i>V. globator</i>	AB014002	AB044187	AB044428	AB044478	D86836	
<i>V. tertius</i>	AB076106–7	AB076125–6	AB076147	AB076162	AB076098	FJ610144
<i>Volvulina pringsheimii</i>	AB014028	AB044220	AB044447	AB044499	D63444	
<i>Yamagishiella unicocca</i>	AB014031	AB044214–5	AB044444	AB044496	D86825	
<i>Zygnema circumcarinatum</i>	NC008117	NC008117	NC008117	NC008117	NC008117	

atpB, beta subunit of ATP synthase; psaA, P700 chlorophyll a-apoprotein A1; psaB, P700 chlorophyll a-apoprotein A2; psbC, photosystem II CP43 apoprotein; rbcl, large subunit of rubisco; 18S, nuclear small ribosomal subunit.