

Table 1. Species included in the phylogenetic analyses and GenBank accession numbers for their nuclear 18S rRNA gene sequences.

Taxon / Species	GenBank Acc. No.
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Bacillariophyceae	
<i>Cylindrotheca closterium</i> (Eher.) Reimann <i>et</i> Lewin	M87326
<i>Melosira varians</i> C. Agardh	X85402
<i>Nitzschia apiculata</i> (Greg.) Grunow	M87334
<i>Phaeodactylum tricornutum</i> Bohlin	AJ269501
<i>Rhizosolenia setigera</i> Brightwell	M87329
<i>Stephanopyxis</i> cf. <i>broschii</i> Grunow	M87330
<i>Thalassionema nitzschioides</i> (Grunow) van Heurck	X77702
Bolidophyceae	
<i>Bolidomonas mediterranea</i> Guillou <i>et</i> Chrétiennot-Dinet	AF123596
<i>Bolidomonas pacifica</i> Guillou <i>et</i> Chrétiennot-Dinet	AF123595

Chrysomerophyceae

Giraudyopsis stellifera Dangeard U78034

Antarctosaccion applanatum Delepine *et al.* AJ295822

Chrysophyceae

Anthophysa vegetans (O.F. Müller) F. Stein XXXXXXXX

Chromophyton rosanoffii Woronin AF123282

Chromulina nebulosa Cienkowski AF123285

Chromulina chinophila M87332

Chrysamoeba mikrokonta Skuja AF123287

Chrysamoeba pyrenoidifera Korshikov AF123286

Chrysocapsa vernalis Starmach AF123283

Chrysochaete britannica (Godward) Rosenberg AF123284

Chrysolepidomonas dendrolepidota Peters *et* Andersen AF123297

Chrysonephele palustris Pipes, Taylor *et* Leedale U71196

Chrysosaccus sp. AF123300

Chrysosphaera parvula (Pascher) Bourrelly AF123299

<i>Chrysoxys</i> sp.	AF123302
<i>Cyclonexis annularis</i> Stokes	AF123292
<i>Dinobryon sertularia</i> Ehrenberg	AF123289
<i>Dinobryon sociale</i> var. <i>americana</i> (Brunnthaler) Bachmann	AF123291
<i>Epipyxis aurea</i> (Bourrelly) Hillard et Asmund	AF123301
<i>Epipyxis pulchra</i> Hillard et Asmund	AF123298
<i>Hibberdia magna</i> (Belcher) Andersen	M87331
<i>Lagynion scherffelii</i> Pascher	AF123288
<i>Ochromonas danica</i> Pringsheim	M32704
<i>Ochromonas sphaerocystis</i> Matvienko	AF123294
<i>Ochromonas tuberculata</i> Hibberd	AF123293
<i>Ochromonas</i> sp. 1	U42382
<i>Ochromonas</i> sp. 2	U42381
<i>Oikomonas mutabilis</i> Kent	U42454
<i>Paraphysomonas butcheri</i> Pennick et Clarke	AF109326
<i>Paraphysomonas bandaiensis</i> Takahashi	AF109322

<i>Paraphysomonas imperforata</i> Lucas (strain SR3)	AF109324
<i>Paraphysomonas imperforata</i> Lucas (strain VS1)	AF109323
<i>Paraphysomonas foraminifera</i> Lucas	AB022864
<i>Paraphysomonas vestita</i> (Stokes) De Saedeleer	AF109325
<i>Phaeoplaca thallosa</i> Chodat	AF123296
<i>Poterioochromonas stipitata</i> Scherffel	AF123295
<i>Poterioochromonas malhamensis</i> (Pringsheim) Peterfi	AB023070
<i>Spumella elongata</i> (Stokes) Belcher <i>et</i> Swale	AJ236859
<i>Uroglena americana</i> Calkins	AF123290

Dictyochophyceae

<i>Apedinella radians</i> (Lohmann) Campbell	U14384
<i>Dictyocha speculum</i> Ehrenberg	U14385
<i>Pseudopedinella elastica</i> Skuja	U14387
<i>Rhizochromulina</i> cf. <i>marina</i>	U14388

Eustigmatophyceae

<i>Eustigmatos magna</i> Hibberd	U41051
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<i>Monodopsis subterranea</i> (J.B. Petersen) Hibberd	U41054
<i>Nannochloropsis granulata</i> Karlson <i>et</i> Potter	U41092
<i>Nannochloropsis oculata</i> (Droop) Hibberd	AF045044
<i>Nannochloropsis salina</i> Hibberd	AF045048
<i>Pseudocharaciopsis minuta</i> (Braun) Hibberd	U41052
<i>Vischeria helvetica</i> (Vischer <i>et</i> Pascher) Hibberd	AF045051

Pelagophyceae

<i>Aureococcus anophagefferens</i> Hargraves <i>et</i> Sieburth	AF117777
<i>Aureoumbra lagunensis</i> Stockwell <i>et al.</i>	U40258
coccoid pelagophyte (CCMP1395)	U40927
coccoid pelagophyte (CCMP1410)	U40926
<i>Pelagococcus subviridis</i> Norris	U14386
<i>Pelagomonas calceolata</i> Andersen <i>et</i> Saunders	U14389
<i>Chrysoreinhardia</i> sp.	U78032
<i>Sarcinochrysis marina</i> Geitler	U78033

Phaeophyceae

Alaria esculenta (L.) Greville

Costaria costata (C.A. Agardh) Saunders

Ectocarpus siliculosus (Dillwyn) Lyngbye

Fucus distichus L.

Scytosiphon lomentaria (Lyngbye) C.A. Agardh

M97958

L43062

AB011423

L43066

Phaeothamniophyceae

Phaeothamnion confervicola Lagerheim

AF044846

Pinguiphyceae

Glossomastix chrysoplata O'Kelly

AF438325

Phaeomonas parva Honda et Inouye

AF438323

Pinguiochrysis pyriformis Kawachi

AF438326

Pinguiooccus pyrenoidosus Andersen et al.

AF438324

Polypodochrysis teisseri Magne

AF438322

Raphidophyceae

Chattonella subsalsa Biecheler

U41649

Heterosigma akashiwo (Hada) Hada ex Y. Hara et Chihara U41650

Vacuolaria virescens Cienkowski U41651

Synurophyceae

Mallomonas adamas Harris et Bradley U73225

Mallomonas akrokomos Ruttner U73229

Mallomonas annulata (Bradley) Harris U73230

Mallomonas caudata Ivanoff em. Krieger U73228

Mallomonas matvienkoae (Matvienkoae) Asmund et Kristiansen U73227

Mallomonas papillosa Harris et Bradley M55285

Mallomonas rasilis Dürschm U73231

Mallomonas splendens (G.S. West) Playfair U73226

Mallomonas striata Asmund U73232

Synura glabra (Korshikov) Huber-Pestalozzi

Synura mammillosa Takahashi U73220

Synura petersenii Korshikov U73223

Synura sphagnicola Korshikov U73221

<i>Synura spinosa</i> Korshikov	M87336
<i>Synura uvella</i> Ehrenberg em. Korshikov	U73222
<i>Tessellaria volvocina</i> (Playfair) Playfair	U73219

Xanthophyceae

<i>Botrydiopsis intercedens</i> Vischer et Pascher	U41647
<i>Botrydium stoloniferum</i> Mitra	U41648
<i>Bumilleriopsis filiformis</i> Vischer	AF083398
<i>Heterococcus caespitosus</i> Vischer	AF083399
<i>Mischococcus sphaerocephalus</i> Vischer	AF083400
<i>Tribonema aequale</i> Pascher	M55286
<i>Tribonema intermixtum</i> Pascher	AF084612
<i>Vaucheria bursata</i> (O.F. Müller) de Candolle	U41646
<i>Xanthonema debile</i> (Vischer) Silva	U43277

Incertae sedis

<i>Polykaryon pyrenoidosum</i> (Trenkwalder) Bailey et Misner	XXXXXXXX
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Oomycota

Achlya bisexualis Coker

M32705

Lagenidium giganteum Couch

X54266
