

Table S9

Taxonomic group	Genome type	Species and genome version	Strain	Number of proteins	GenBank / Link
Mamiellophyceae	Nuclear	<i>Ostreococcus</i> RCC809 2.0	RCC809	7 492	<a href="http://genome.jgi-psf.org/OstRCC8">http://genome.jgi-psf.org/OstRCC8</a>
Mamiellophyceae	Nuclear	<i>Ostreococcus lucimarinus</i> v2.0	CCE9901	7 651	NC_009355-75
Mamiellophyceae	Nuclear	<i>Bathycoccus prasinos</i>	RCC1105	8 747	<a href="http://bioinformatics.psb.ugent.be/">http://bioinformatics.psb.ugent.be/</a>
Mamiellophyceae	Nuclear	<i>Micromonas pusilla</i> CCMP1545 v2.0	CCMP1545	10 547	ACCP00000000
Mamiellophyceae	Nuclear	<i>Micromonas</i> RCC299 v3.0	RCC299	10 109	NC_013038-54
Mamiellophyceae	Nuclear	<i>Ostreococcus tauri</i>	OTTH0595	7 890	CR954201-20
Haptophyta	Nuclear	<i>Emiliana huxleyi</i> v1.0	CCMP1516	39 125	<a href="http://genome.jgi-psf.org/Emihu1/E">http://genome.jgi-psf.org/Emihu1/E</a>
Stramenopiles	Nuclear	<i>Fragilariopsis cylindrus</i> model 1		27 137	<a href="http://genome.jgi-psf.org/Fracy1/F">http://genome.jgi-psf.org/Fracy1/F</a>
Stramenopiles	Nuclear	<i>Phaeodactylum tricornutum</i> v2.0	CCAP 1055/1	10 025	NC_011669-701
Stramenopiles	Nuclear	<i>Thalassiosira pseudonana</i> v3.0	CCMP1335	11 390	NC_012064-87
Stramenopiles	Nuclear	<i>Aureococcus anophagefferens</i>	CCMP1984	11 501	<a href="http://genome.jgi-psf.org/Auran1/A">http://genome.jgi-psf.org/Auran1/A</a>
Fungi	Nuclear	<i>Lachancea (Saccharomyces) kluyveri</i>	CBS3082	5 328	CM000687-94
Fungi	Nuclear	<i>Candida glabrata</i>	CBS138	5 202	NC_005967-36
Mamiellophyceae	Mitochondrion	<i>Micromonas</i> RCC299 v3.0	RCC299	39	NC_012643
Mamiellophyceae	Mitochondrion	<i>Ostreococcus tauri</i>	OTTH0595	43	CR954200
Rhodophyta	Mitochondrion	<i>Cyanidioschyzon merolae</i>	10D	34	NC_000887
Mamiellophyceae	Chloroplast	<i>Micromonas</i> RCC299 v3.0	RCC299	57	NC_012575
Mamiellophyceae	Chloroplast	<i>Ostreococcus tauri</i>	OTTH0595	61	CR954199
Rhodophyta	Chloroplast	<i>Cyanidioschyzon merolae</i>	10D	207	NC_004799
Bacteria		<i>Roseobacter denitrificans</i>	OCh 114	3 946	NC_008209
Bacteria		<i>Candidatus Pelagibacter ubique</i>	HTCC1062	1 354	NC_007205
Bacteria		<i>Synechococcus</i> sp.	CC9902	2 206	NC_007513
Bacteria		<i>Prochlorococcus marinus</i>	MIT 9313	2 269	NC_005071
Bacteria		<i>Bacillus</i> sp.	B14905	4 624	NZ_AAXV000000000
Bacteria		<i>Marinobacter aquaeolei</i>	VT8	3 858	NC_008740
Bacteria		<i>Planctomyces maris</i>	DSM 8797	6 480	NZ_ABCE000000000
Archaea		<i>Thermococcus onnurineus</i>	NA1	1 975	NC_011529
Archaea		<i>Halomicrobium mukohataei</i>	DSM 12286	3 173	NC_013202
Virus (prasinovirus)		<i>Ostreococcus tauri</i> virus OtV5		243	NC_010191
Virus (prasinovirus)		<i>Ostreococcus tauri</i> virus OtV1		240	NC_013288
Virus (prasinovirus)		<i>Bathycoccus prasinos</i> virus BpV161		218	NC_014765
Virus (prasinovirus)		<i>Bathycoccus prasinos</i> virus BpV115		211	HM004430
Virus (prasinovirus)		<i>Ostreococcus lucimarinus</i> virus OIV1		251	NC_014766
Virus (prasinovirus)		<i>Micromonas pusilla</i> virus MpV1		244	NC_014767
Virus		<i>Acanthamoeba polyphaga</i> mimivirus		911	NC_04649
Virus		<i>Emiliana huxleyi</i> virus 86		472	NC_007346