

Additional file 1 – Evolutionary models and support values for the *Cryptomonas* clades in the unrooted rbcL data set

	All Codon Positions	Position 1	Position 2	Position 3	Protein
ntax	23	23	23	23	23
npos	1188	396	396	396	369
basefreq (P)	0.0163	1.000	1.000	0.000	passed
evol. model	GTR+I+ Γ	GTR+I+ Γ	TVM+I	GTR+I+ Γ	CpRev+I+ Γ

Clades	Support				
	ML/MP/NJ/LD/PP	ML/MP/NJ/PP	ML/MP/NJ/PP	ML/MP/NJ/LD/PP	ML/MP/NJ/PP
<i>C. borealis</i>	81/-/-/0.99	60/+/+0.76	-/-/0.60	+/-/-/53	83/80/90/1.00
<i>C. curvata</i>	100/99/100/100/1.00	60+/55/0.97	54/59/70/0.94	99/99/99/93/1.00	97/75/97/0.89
<i>C. marssonii</i>	98/88/98/99/1.00	+/-/(+)/-	-/-/+0.57	69/76/73/72/0.90	-
<i>C. ovata</i>	100/100/100/100/1.00	51+/63/0.55	-	98/99/99/99/1.00	-/+/-
<i>C. paramaecium</i>	100/100/100/99/1.00	99/97/99/1.00	62/71/75/1.00	99/98/99/80/1.00	98/98/99/1.00
<i>C. pyrenoidifera</i>	89/84/99/99/0.99	-	-	87/85/97/87/1.00	+/-/0.61
<i>C. pyrenoidosa</i> without CCAP 979/61	97/100/100/100/1.00	+76/94/0.84	-/+58/-	98/100/99/99/1.00	97/62/94/0.98
<i>C. tetrapyrenoidosa</i>	99/99/100/100/1.00	88/83/90/0.99	59/59/70/0.96	84/90/97/87/0.99	96/94/94/1.00

Clade designations according to [11]. Clades LB and NoPyr were not supported in the *rbcL* phylogeny. Basefreq (P), probability for a homogeneity of base frequencies or amino acids across taxa (for DNA determined with PAUP*; for amino acids determined with Tree- Puzzle; red, rejected, i.e. base frequencies were heterogenous); CpRev, general time reversible model for plastid- encoded genes [52]; evol. model, evolutionary model according to the Akaike Information Criterion; Γ , gamma- distributed among- site rate variation; GTR, the general time reversible model [51]; I, proportion of invariable sites; LD, logdet/neighbor- joining bootstrap; ML, maximum likelihood bootstrap; MP, maximum parsimony bootstrap; NJ, distance/neighbor- joining bootstrap; npos, number of positions in the data set; ntax, number of taxa in the data set; PP, posterior probability (Bayesian analysis); TVM, the transversion model [51]; +, present but not supported; -, not present