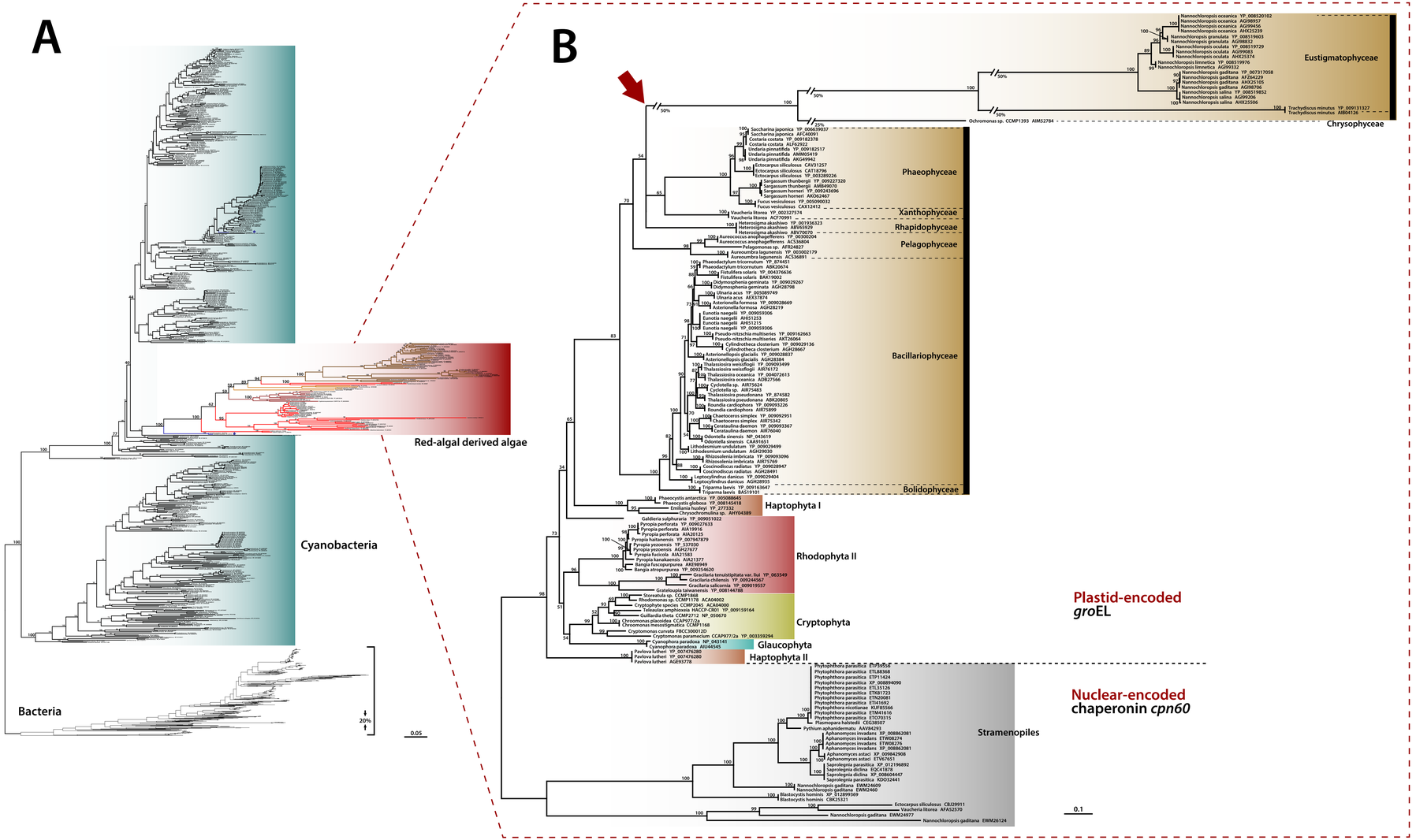

C Location of introns in *gro*EL gene

[1]*Cryptomonas paramecium*	CCMP1868	inverted 528aa
[2]*Cryptomonas curvata*	FBCC300012D	528aa
[2]*Chroomonas placoidea*	CCAP978/8	41aa, 278aa, 548nt, 1514nt, 503aa
[2]*Chroomonas mesostigmatica*	CCMP1168	41aa, 278aa, 548nt, 1514nt, 503aa
[2]*Storeatula* species	CCMP1868	41aa, 643nt, 489aa
[3]*Rhodomonas salina*	CCMP1319	530aa
[4]*Rhodomonas baltica*	RCC350	530aa
[4]*Rhodomonas* species	CCMP1170	530aa
[4]*Rhodomonas* species	CCMP1178	41aa, 444aa, 505nt, 2153nt, 373aa
[4]Cryptophyte species	CCMP2045	41aa, 454 aa, 806nt, 139aa, 1882nt, 2168nt, 235aa
[5]*Rhodomonas salina*	Maier	416aa, 514 aa, 1615nt, 2513nt, 170aa
[6]*Teleaulax amphixeia*	HACCP-CR01	530aa
[7]*Guillardia theta*	CCMP2712	530aa

[1]Donaher et al. 2009; [2]This study; [3]Khan et al. 2007; [4]Khan and Archibald 2008; [5]Maier et al. 1995; [6]Kim et al. 2015; [7]Douglas et al. 1999

Figure S3. Phylogenetic tree based on *gro*EL.