



Additional file 3 - Rooted maximum likelihood tree of cryptophyte *rbcL* sequences including all codon positions (46 taxa; 990 nt)

As outgroup taxa, 14 rhodophyte *rbcL* sequences representing most bangiophyte clades and the Florideophyceae were chosen. In this tree, clade LB is present, but not always supported. Support values from left to right: maximum likelihood bootstrap/maximum parsimony bootstrap/distance bootstrap/logdet bootstrap/posterior probabilities (Bayesian analysis). Evolutionary model according to the Akaike Information Criterion: GTR+I+ Γ . Bold face, new sequences; scale bar, substitutions per site. $-lnL = 14480$