## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Accession numbers for the analyzed sequence data of nine plastid genes (atpB, rbcL, psaA, psbB, rps4, matK, trnL, cpLSU, and cpSSU), including the catalytic core of the trnL group I intron for a representative sampling of green plants, and the red algal outgroup. Sequences of Asterochloris sp. (Astpho1) can be downloaded from https://genome.jgi.doe.gov/Astpho1/Astpho1.download.html.