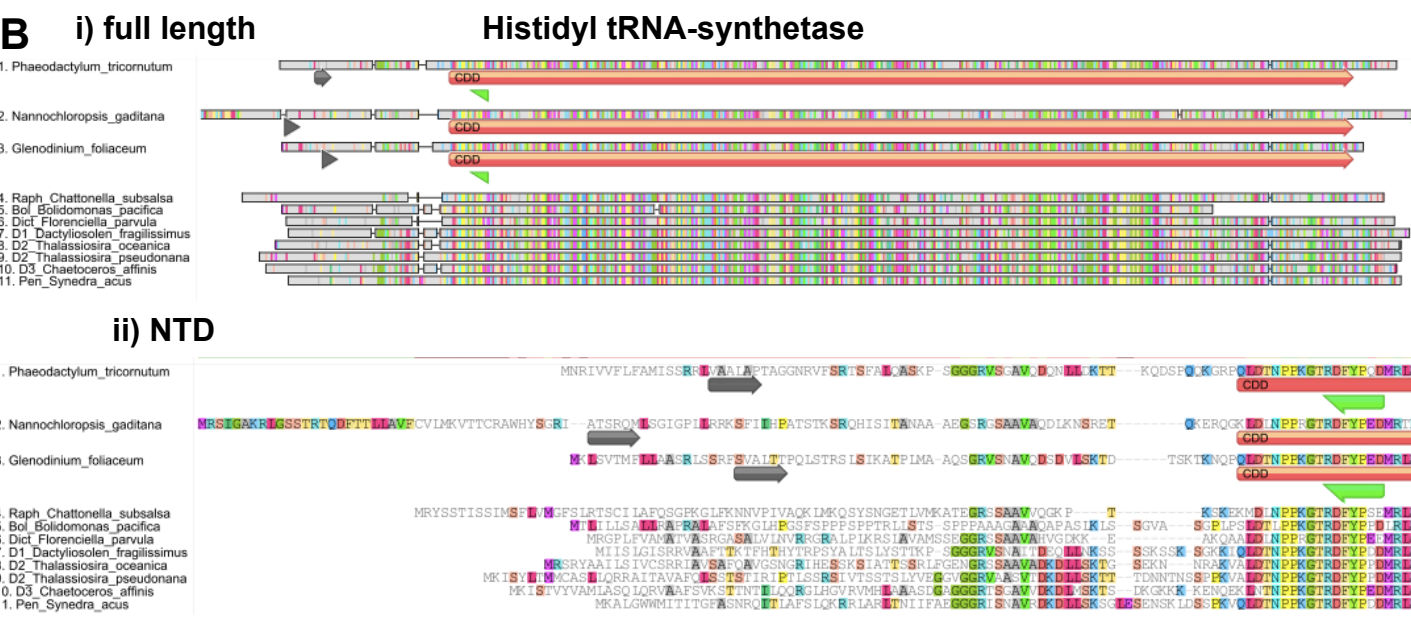
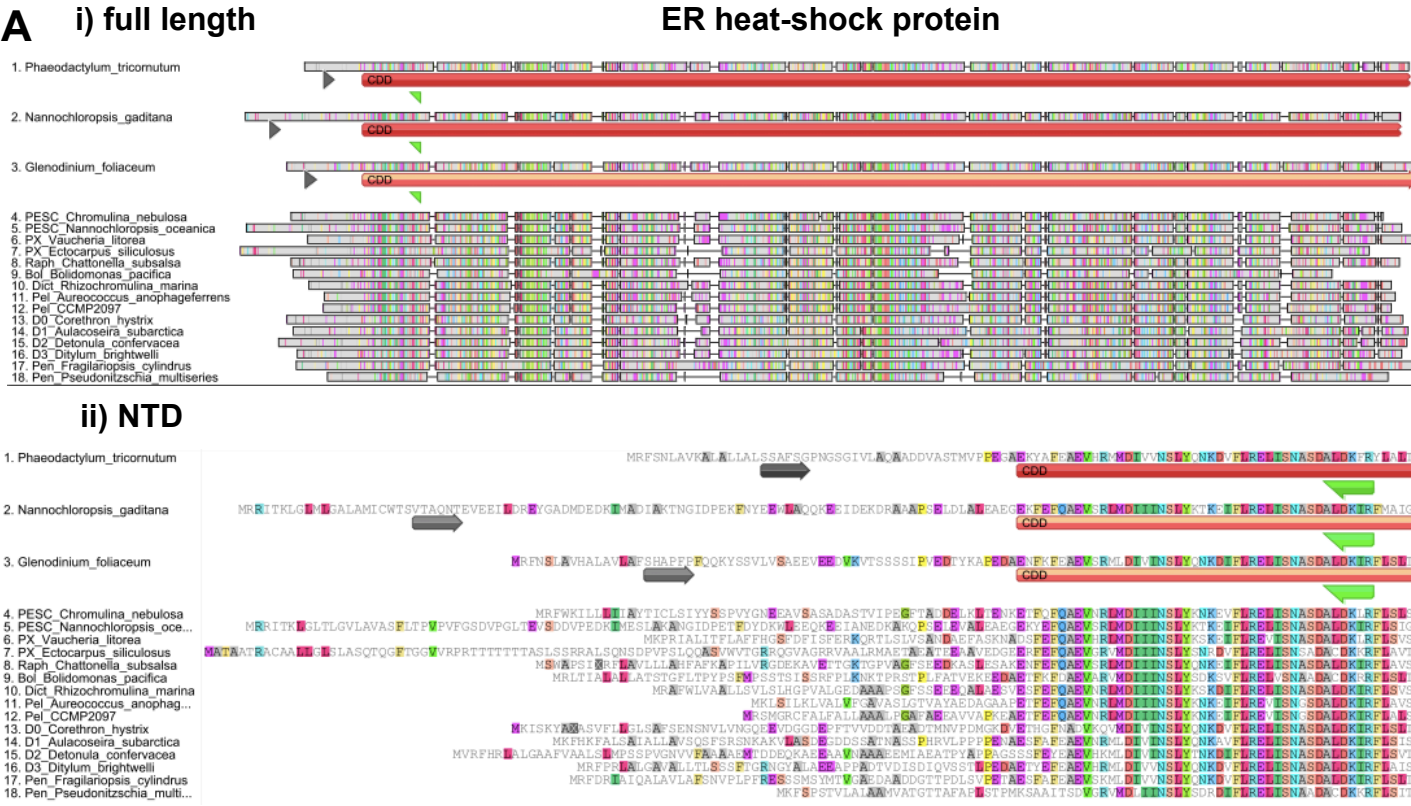


Fig. 2- figure supplement 1- Exemplar ochrophyte plastid protein alignments. This figure shows untrimmed GeneIOUS alignments for two ancestral HPPGs of unusual provenance. In each case the full length of the protein (labelled i) and N-terminal region only (ii) are shown, demonstrating the broad conservation of the N-terminus position. Sequences for which exemplar targeting constructs (*Phaeodactylum tricornutum*, *Nannochloropsis gaditana*, *Glenodinium foliaceum*) are shown at the top of each alignment.



Key

→ ASAFAP motif

→ Conserved domain

← Position of PCR reverse primer