



Supplementary figure 1: Heterologous expression of *Phaeodactylum tricornutum* with genes from *Chromera velia* heme pathway enzymes. Even though the majority of *P. tricornutum* cells heterologously expressed with ALAD1, ALAD2, UROS, FECH1 and FECH2 enzymes showed typical “blob-like” structures patterns, some cells displayed colocalization of eYFP signal (green) with signal of ER-Tracker™ Red (BODIPY® TR Glibenclamide). Plastid autofluorescence (magenta), DAPI (blue).