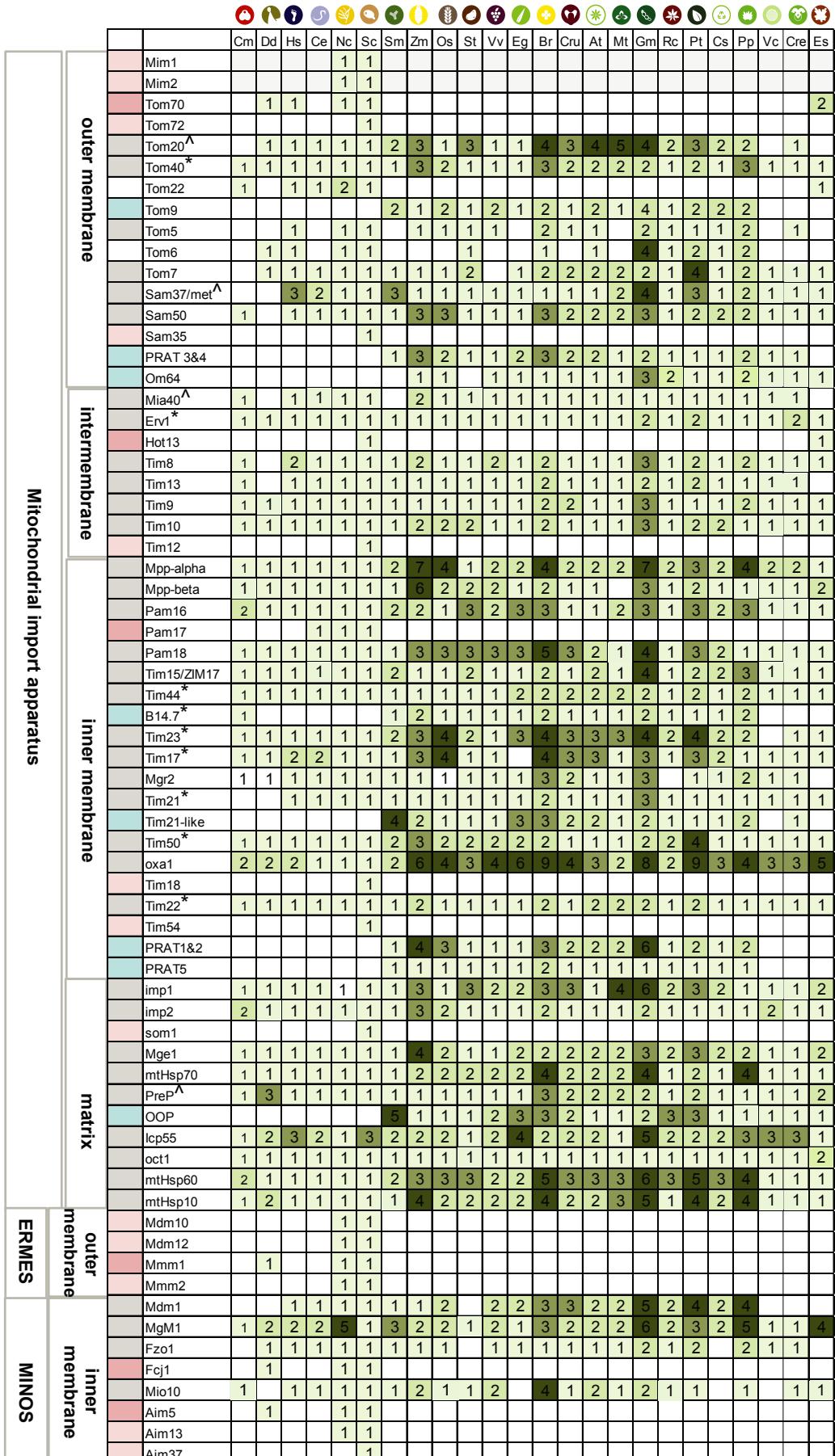


# MPIC COMPONENT GENE SPECIES

MITOCHONDRIAL  
PROTEIN IMPORT  
• COMPONENTS •

MPIC



Higher plants and algae only  
In fungal species only  
Other non-“plant” species only  
Conserved across >15 species

**Figure 4.** Gene family members for import components from yeast to plants. Phylogenetic distribution of the mitochondrial protein import component encoding genes from yeast across 24 organisms. The number of orthologs in each gene family are highlighted by color intensity (light to dark green) based on the number of genes. The letter code represents each species and colour code indicates in the first column indicates conservation. For Arabidopsis, published phenotype information is also indicated, whereby knocking out one or more of these genes results in an embryo lethal phenotype (indicated by an asterisk\*) or delayed growth (indicated by ^). Abbreviations: ERMES = endoplasmic reticulum-mitochondria encounter structure, MINOS = mitochondrial inner membrane organising system.