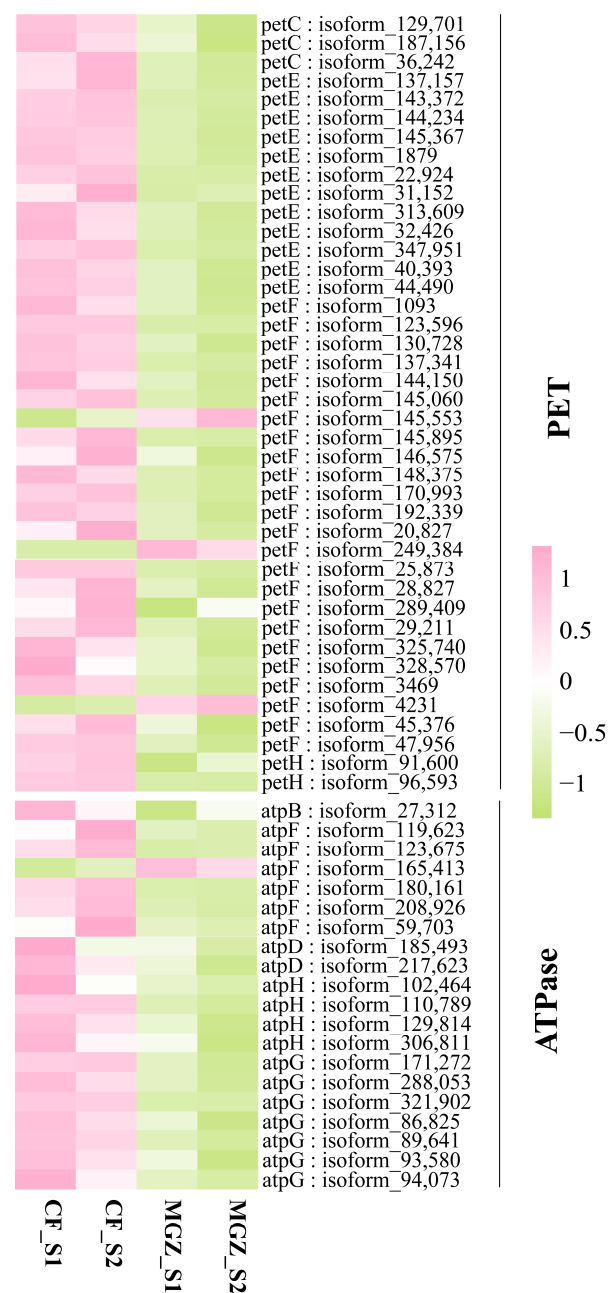


**Table S1 Gene-specific primer sequence for qRT-PCR detection**

Gene_ID	Forward Primer (5'-3')	Reverse Primer (5'-3')
<i><math>\beta</math>-actin</i>	GTTGCCCTTGATTACGAG	CAGCTTCCATTCCGATTA
psbO : isoform_284,013	AGCCAGACTCACTTGCTCAC	TTGCTGTTCTCTGTTCCCTTG
psbY : isoform_135,269	AACAAATCGCCAGATAGCC	AAGCCCAACCATGACACCCT
psbS : isoform_104,310	GCTATTTGTGGGTCGTGTTG	GAAGAGGTTCTGGCTTCGTAA
petC : isoform_129,701	ATGCTGAAGCCCATAAGAAC	AAGAAGGTGGCATAAGGAAC
Lhcb6 : isoform_114,246	TCTAGGTAAGGACCCAGCATT	CCAGGAGTGAGCCAAAGGAG
atpG : isoform_86,825	AATCTAACAATGTGGGTCTCC	CAGAACTAATACGCTCACGAA
Lhcb1 : isoform_108,104	GAGGCAGTATGGTTCAAGGC	TCGGTAACCCTCAACAGCAC
Lhcb2 : isoform_134,323	GCCCAGAGCATCTTAGCAAT	CCAATCCAAGCGGATCAAAA
Lhcb5 : isoform_108,816	CGATCCCTTTGGACTTAGCA	CATCAAGCAGTAGAGCACCC
NYC1 : isoform_24,864	TGGAACAATGATAGGTGCT	AGACTCAGGACTGCGAGAT

Figure S1



**Figure S1.** Heat-map of differentially expressed genes (DEGs) related to photosynthesis in CF and MGZ. Including genes encoding photosynthetic electron transport (PET) and ATPase. In the heat map, samples are represented by columns while genes are represented by rows. The values of gene expression (FPKM) are indicated using a color scale called 'row scale'. High expression is shown in pink, intermediate expression in white and low expression in green.