

## Supplementary material

**Table S1** Genes for qRT-PCR.

Number	GeneID	Description
1	<i>Os07g0529600</i>	Thiamine thiazole synthase 2, chloroplastic
2	<i>Os01g0581300</i>	Lycopene epsilon cyclase, chloroplastic
3	<i>Os02g0704000</i>	9-cis-epoxycarotenoid dioxygenase NCED1, chloroplastic-like
4	<i>Os03g0743900</i>	ATP-sulfurylase 3, chloroplastic
5	<i>Os01g0866400</i>	Fructose-1,6-bisphosphatase, cytosolic
6	<i>Os02g0664000</i>	Probable phospholipid hydroperoxide glutathione peroxidase
7	<i>Os07g0170300</i>	YT521-B-like protein family protein
8	<i>Os07g0636000</i>	Similar to H/ACA ribonucleoprotein complex subunit 4

**Table S2** Primers used for qRT-PCR verification of differently expressed genes.

Gene	Forward primer	Reverse primer	Amplicon size (bp)
<i>Os03g0743900</i>	AAGAGTTTGCCAGACGCAAT	CATGCTGCTTCATTCTCCAA	204
<i>Os01g0581300</i>	GAAACCGTGTCTACCCTGGA	GAAGAAAGCGTCGAACCAAG	505
<i>Os02g0704000</i>	TGAAGTCCATGAGGCTTTCC	GCTACCAACTGCTCGTCCTC	193
<i>Os07g0529600</i>	CGTACGAGCTCTCCAAGGAC	ATGACGGTGGAGGTGAAGAG	214
<i>Os01g0866400</i>	AAATTTCCCCAGGATGGTTC	GCCTGTGAAAGCTTGTCTC	484
<i>Os02g0664000</i>	AGTGTGGCTTGACCAATTCC	GATGGGTGCAGTGTGTCAC	766
<i>Os07g0170300</i>	CCTAGTGGGCGTTTTGGTAA	GTGGTCCCAACGGAGAAGTA	562
<i>Os07g0636000</i>	GCTGTTATGGCGACTTGTGA	CACTCAGCTGGGGTCTTCTC	179

In the following sequences, the gray part is 5'-UTR, the pink part is 3'-UTR, the purple part is 'Start'-codons, and the red part is 'Stop'-codons.

**Os03g0743900-01** class=Sequence position=[chr03:30532225..30535298 \(- strand\)](#)

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TGGGGCGGGT	GGAGACGGAG	TGGCTGCACG	TGCTGAGCGA	AGGGTGGGCG	AGCCCCGCTGC
GAGGGTTCAT	GCGCGAGGCC	GAGTTCCTCC	AAGCACTTCA	TTCAACGCC	ATCCGCGGCG
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AAATGGACTT	TTTCGATCCA	TCAAGGAAAG	ATGATTTCTT	GTTTCATCTCT	GGCACAAAGG
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>**Os01g0581300**-01 class=Sequence position=[chr01:22535013..22538645 \(+ strand\)](#)

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>Os02g0704000-01 class=Sequence position=chr02:29026099..29028176 (- strand)

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>Os07g0529600-01 class=Sequence position=chr07:20724581..20726069 (+ strand)

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