**Table S1. Primers used for quantitative real time PCR analysis**

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| **Gene no.** | **Functional annotation** | **Primer sequence(5’-3’)** |
| TEA000784.1 | NIA2 Nitrate reductase | F: TCCGAGTAAAGACGAATGTGTGC |
|  | R: GTGGTGTTTGTGAAGGGTGAAGA |
| TEA030033.1 | Tropinone reductase | F: CCGTGTGTTCTGTCTTTGATGG |
|  | R: AGAGAGGATGTGCAAGTTGGGA |
| TEA001686.1 | Ribulose bisphosphate carboxylase small chain 3B | F: CTCTTTCTTACCTTCCACCTCTC |
|  | R: AGTACCTCCCATCGTAGTATCCT |
| TEA027333.1 | MYB5 | F: CCAACCTACAAGAAGAACCAAAG |
|  | R: GGAGTCCAATCAAAACTACAATT |
| TEA020838.1 | TT12 | F: AGTGTGAGGGTGAGCAACGAAC |
|  | R: CTGATGACATGGCGCAATATGA |
| TEA002113.1 | TT12 | F: AGCACAGAACATTGTGAACCCA |
|  | R: AAAACCAGTACCCACCAGGAGA |
| TEA003898.1 | Cinnamoyl-CoA reductase 2 | F: GCTATTTTTCACACCTCCTCCTT |
|  |  | R: TGTCTGCATTGTTGATGTTCCAG |
| TEA003219.1 | Chlororespiratory reduction 6 | F: GTTACCTGTTTTGCTGGACTGG |
|  | R: CTTTGGAATGCTATGTTGCTTG |
| TEA001646.1 | NAC | F: AAATCCGCCACTTCTTCCAC |
|  | R: AACCCTTTCACTGTCCCACC |
| TEA011210.1 | NAC | F: AATCCGCCACTTCTTCCACT |
|  |  | R: AACCCTTTCACTGTCCCACC |
| TEA026161.1 | Ribonucleoside-diphosphate reductase small chain A | F: TGGCAACAACAGGGAAGAGG |
|  | R: AAGCAGCCAGAAATGCGGTA |
| TEA021139.1 | NPF3.1 | F: CATCATCCTGGGTTCCTCTATCT |
|  |  | R: CACAGGGTCTAATGCCACCTAAT |
| TEA016683.1 | UDP-glycosyltransferase 74F2 | F: AGGAGGCTAAGCTACCAAAAAAA |
|  | R: CAATGTGAGAAAAAGCAACCAAT |
| TEA022315.1 | Photosystem I reaction center subunit VI | F: GTGGCCAAATATGGGGACAA |
|  | R: GGCACTAAAGTAAGCAAGGGTG |
| TEA032473.1 | NRT1/ PTR FAMILY 5.2 | F: ACTCAAGTAGAGGAGACCAAACAA |
|  |  | R: CATATAACACCACACAGATAAGCATT |
| TEA026956.1 | PEA Protein TIC 62 | F: GGCAAAAGCCGAGGAAGAAG |
|  |  | R: CCAAGAAAGTCCCGAACCAAT |
| TEA027582.1 | LAR | F: GATTGATAGAAGAGTGTGGGGTG |
|  |  | R: ATTTATGTTGAGAAAATTGCAGG |
| TEA010512.1 | GSTF11 | F: AGTTCACTTTGGCTGACCTCTCT |
|  |  | R: CAACCACCTTCTTCCATGATTCT |
| TEA008087.1 | MAP1A | F: ATGGTGGAGGAATGAAATGGAGA |
|  |  | R: GGTTGGTGCTTGAACTTTGAAATAA |