**Additional file 4: Table S2.** Primer sequences and TaqMan MGB Probes used for the quantitative RT-PCRs of carotene hydroxylase genes.

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| --- | --- | --- |
| cDNA | Position | Sequence |
| *CitHYb*  | Sense primer | GCGGCTCACCAGCTTCAC |
| Antisense primer | CCGAGAAAGAGCCCATATGG |
| TaqMan MGB Probe | ACTCGGATAAATTCC |
| *CitCYP97A* | Sense primer | TGGAGGGCCACGGAAAT |
| Antisense primer | CGCAACTGCTACTATGTTCTCAAAG |
| TaqMan MGB Probe | CGTAGGTGATATGTTTGCT |
| *CitCYP97B* | Sense primer | GAAACGACGGCTGCTGTTC |
| Antisense primer | TTGAGGGATTTTGAGCCAGAA |
| TaqMan MGB Probe | ACTTGGGCTGTTTTT |
| *CitCYP97C* | Sense primer | TCAATGCGTCTCTACCCACATC |
| Antisense primer | TTTCCAGGGAGCACATCATCT |
| TaqMan MGB Probe | TCCTGTCTTGATAAGAAG |