

**S1 Table Synthetic oligonucleotides used in this study.**

| Primer description                      | Sequence (5' - 3')                 |
|---|------------------------------------|
| For qRT-PCR                             |                                    |
| CPT2-For                                | GGATCTTCAATGCTGGAAATCATCATCACC     |
| CPT2-Rev                                | AAGCTCTTCATGAAGCTCGAGATCATC        |
| TPS21-For                               | AACTCAAGAGGTGGTTTCAAGATTG          |
| TPS21-Rev                               | CTCAGGTTTCAGACACAACAGCTATG         |
| CYP71BN1-For                            | TTCACGAACACGAAGAAAGTATTAG          |
| CYP71BN1-Rev                            | TCCACCGATGAACATATCCAAG             |
| EF-1a-For                               | GCTGCTGTAACAAGATGGATGC             |
| EF-1a-Rev                               | CCCTTGTACCAGTCGAGGTTG              |
| For transgenic tomato                   |                                    |
| CPT2-35S-For                            | GATTGTCGACATGAACTCTTCAATAGTGTCTC   |
| CPT2-35S-Rev                            | CTAAGGATCCTCAATATGTGTGTCCACCAAAAC  |
| CPT2-RNAi-XhoI-54                       | AGAGCTCGAGGGATCTTCAATGCTGGAAATC    |
| CPT2-RNAi-KpnI-243                      | CATGGGTACCGAGATCATCATTATCATCATTATC |
| CPT2-RNAi-BamHI-243                     | CATGGGATCCGAGATCATCATTATCATCATTATC |
| CPT2-RNAi-XbaI-54                       | AGAGTCTAGAGGATCTTCAATGCTGGAAATC    |
| For RT-PCR of CPT2 over-expression line |                                    |
| CPT2-screening-F                        | TAATGATGATCTCGAGCTTC               |
| CPT2-screening-R                        | GTTGGATTTACAACCAATAAC              |
| Actin-screening-F                       | TGCCATGTATGTTGCCATCCAGGC           |
| Actin-screening-R                       | AGCTCTTCTCAACAGATGAGCTGG           |

The restriction sites are underlined.