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| **Supplemental Table 1. Primers used in this study.** | | | |  |
| Primer name | Gene ID | Primer sequence | Primer efficiency (r-squared values)\* | Experiment |
| SlCDF1-OE-Fw | Solyc03g115940 | TTCATTTGGAGAGGACACGCATGAGGGAAGTGAAGGAACC |  | Constructing the overexpression vectors, the underlined sequence is homologous arm. |
| SlCDF1-OE-Rv | Solyc03g115940 | ATCTCATTAAAGCAGGACTCTTATACTCTCTCCTGGAAGC |
| SlCDF2-OE-Fw | Solyc05g007880 | TTCATTTGGAGAGGACACGCATGTCTGAAGTTAGAGATCCT |
| SlCDF2-OE-Rv | Solyc05g007880 | ATCTCATTAAAGCAGGACTCTCATCGTGTACTCTCACGAA |
| SlCDF3-OE-Fw | Solyc06g069760 | TTCATTTGGAGAGGACACGCATGACTTGTGATTCAGAGATC |
| SlCDF3-OE-Rv | Solyc06g069760 | ATCTCATTAAAGCAGGACTCTTAGGCACCTTGTTGGAAGG |
| SlCDF4-OE-Fw | Solyc02g067230 | TTCATTTGGAGAGGACACGCATGACAGACCCCGCAATTAA |
| SlCDF4-OE-Rv | Solyc02g067230 | ATCTCATTAAAGCAGGACTCTTATAAGCTCTCATTGAAATT |
| SlCDF5-OE-Fw | Solyc02g088070 | TTCATTTGGAGAGGACACGCATGTCTGAAGCAATTGCTAT |
| SlCDF5-OE-Rv | Solyc02g088070 | ATCTCATTAAAGCAGGACTCTTATGAGCTCTCATTGAAAT |
| CaMV35S-Fw |  | ACGCACAATCCCACTATCCTTC | Detecting for transgenic positive tomato plants |
| SlCDF1-q-Fw | Solyc03g115940 | TCATGATTTCTGAAGCCCTT | 0.91 | qRT-PCR |
| SlCDF1-q-Rv | Solyc03g115940 | TCCATTGGGTTTGAACACTG |
| SlCDF2-q-Fw | Solyc05g007880 | GCTGAGAATTCACATAATATGC | 0.98 |
| SlCDF2-q-Rv | Solyc05g007880 | GATTGATCATTCCCGATTGT |
| SlCDF3-q-Fw | Solyc06g069760 | ATCTCCAAATGGGTTAATTC | 0.94 |
| SlCDF3-q-Rv | Solyc06g069760 | ATAGGTTCACACAGGGGTA |
| SlCDF4-q-Fw | Solyc02g067230 | AACAATGCATAATTGCTCAC | 0.95 |
| SlCDF4-q-Rv | Solyc02g067230 | CATTATCTCCAACTACGTAA |
| SlCDF5-q-Fw | Solyc02g088070 | CTCCTTGGCCATACATATGG | 0.96 |
| SlCDF5-q-Rv | Solyc02g088070 | GACATTAGCCTTGAGACCTTA |
| SP3D-q-Fw | Solyc03g063100 | CCTAGAGAACGTGATCCTCT | 0.99 |
| SP3D-q-Rv | Solyc03g063100 | CTTAGGCCAATAGTTCTTGT |
| SP5G-q-Fw | Solyc05g053850 | CTAGAGATCCTTTAATAGTTTCTGG | 0.99 |
| SP5G-q-Rv | Solyc05g053850 | AACCACACCAAAGTCTACAC |
| SP5G2-q-Fw | Solyc11g008640 | TGCTACAACTTGCAAATTGAT | 0.94 |
| SP5G2-q-Rv | Solyc11g008640 | TTCCTCCGACCTTTAGCCTT |
| SP5G3-q-Fw | Solyc11g008650 | TCTCTTTATTTCGTCAATTGGG | 0.99 |
| SP5G3-q-Rv | Solyc11g008650 | AGCAAATTGCCTTGTATTGA |
| GAPDH-Fw | Solyc03g111010 | ACCACAAATTGCCTTGCTCCCTTG | 0.96 |
| GAPDH-Rv | Solyc03g111010 | ATCAACGGTCTTCTGAGTGGCTGT |

\*To calculate qRT-PCR primer efficiency (E), use formula E = (1 + r-squared value).