Table S3. Information about oligonucleotides and annealing temperatures used for RT-qPCR.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Gene | Forward (F) and Reverse (R) Oligonucleotide Sequences (5' to 3') | Amplicon length (bp) | Annealing temperature (°C) | R2 | Primer Efficiency (%) | Plant species used to find potato sequence | Potato sequence ID |
| *ELONGATION FACTOR 1-α* (*EF1-α*) | F-GAGACCTTTGCTGAATACCCAC  R-TCACTTTGGCACCAGTTGG | 118 | 56.7 | 0.9970 | 99.4% | Potato [1] | AB061263.1 |
| *1-AMINOCYCLOPROPANE-1-CARBOXYLATE OXIDASE (ACO1)* | F-ACTTTGGTTGAAAAAGAGGCAGAG  R-AATTGGATCACTTTCCATTGCC | 147 | 55.0 | 0.9982 | 108.3% | Tomato [2] | PGSC0003DMT400041796 |
| *ALLENE OXIDE CYCLASE (AOC)* | F- AGTTGTTGTGTACGGCGGTT  R- GCACATCAACACCCCCACTT | 119 | 59.6 | 0.9983 | 99.6% | Tomato [3] | PGSC0003DMT400033027 |
| *CALLOSE SYNTHASE 12-LIKE (CalS12)* | F-GCCCAAGTGTTACGTCCCTT  R-AACCAGGCAACCAAGACAGT | 133 | 57.0 | 0.9955 | 93.1% | Tomato [4] | Sotub02g011920.1.1 |
| *ETHYLENE RESPONSE FACTOR 1 (ERF-1)* | F-CCTTCTCGCACAAGCTGACT  R-CCGACGCCTAACACCTCTAT | 112 | 57.0 | 0.9931 | 98.1% | Potato [5] | PGSC0003DMT400034873 |
| *ETHYLENE RECEPTOR 1 (ETR1)* | F-TCCTAAAACCTGTGTCAGTGGAT  R-GTTGCTGCACATTTTCCACCTA | 108 | 56.0 | 0.9921 | 94.3% | Arabidopsis | XM\_006349934.2 |
| *GIBBERELLIC ACID 20-OXIDASE (GA20ox)* | F-AGGCGTACAGAAGAACCACTT  R-GCCATGTTCCTAAGGTGAGC | 110 | 56.0 | 0.9957 | 79.4% | Medicago [6] | PGSC0003DMT400036523 |
| *TRANSCRIPTION FACTOR MYC2 (MYC2)* | F-CCACAGTGAAAATGGGTAGCAG  R-TTCAAAGCCCTCGACGATTTCT | 115 | 56.0 | 0.9936 | 87.8% | Tomato | Sotub10g009150.1.1 |
| *PHENYLALANINE AMMONIA LYASE* (*PAL*) | F- CCTAGTAGACCACGCCTTGC  R- GGGTTTCCACTTTCCAACGC | 150 | 60.0 | 0.9903 | 101.0% | Medicago [7] | PGSC0003DMT400080548 |
| *POTATO TYPE I PROTEASE INHIBITOR* (*PI-I*) | F- CGTTGTAATCGAGTTCGTCTTGT  R- TGACATGTGGCTGCTTACTTCA | 103 | 56.7 | 0.9859 | 100.0% | Tomato [8] | PGSC0003DMT400031525 |
| *POTATO TYPE II PROTEASE INHIBITOR (PI-II)* | F- AATTGTTGTACCGCAGGAGAGG  R- CCAACTTGGTTATGCTGTACTGG | 99 | 59.1 | 0.9840 | 101.7% | Tomato [8] | PGSC0003DMT400039544 |

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