**Supplemental file 1.** Gene identifiers and qRT-PCR primer sequences used in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Target gene** | **Gene name** | **Identifier** | **fw** | **rv** |
| TPS2 | Terpene synthase 2 | Zm00001d015053 | TACCGGGTCGAGATCACCAA | TCGTTCGTAACGGTGTGGAG |
| TPS10 | Terpene synthase 10 | Zm00001d024486 | TGACAGCCTTGATCACCGTA | AGTTCATCCCCACACGAATC |
| FPPS3 | Farnesyl pyrophosphate synthase 3 | Zm00001d043727 | CCTGGCTAGTTGTGCAAGCT | CAAAACAGTTTGGACTGCCT |
| CYP92C5 | Dimethylnonatriene/trimethyltridecatetraene synthase | Zm00001d018839 | AGGGGTTCAAGCGGAAGATG | AGGTCAGTCGCCACAAACTC |
| OPR7 | Oxo-phytodienoate reductase 7 | Zm00001d032049 | GCACGCATGTGATTTGATTATTAGT | CAA TCG CGG CAT TAC CCA GAT GT |
| UBI1 | Ubiquitin | Zm00001d015327 | TAAGCTGCCGATGTGCCTGCG | CTGAAAGACAGAACATAATGAGCACAG |