**Additional file 10: Primer sequences and descriptive information of genes studied**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Reference or Target Gene**  **Name (in this study)** | **Reference** | **Reference**  **Gene ID** | **CornCyc/Uniprot** | **RefSeq** | **Chr** | **Gene Product** | **Primer Sequences (5'-3')** | **Product**  **size** |
| *DAG* | Bridget Crampton, pers comm | GRMZM2G451729 |  |  | 2 | dag protein | F: CAACCATCAGCACCTGGAT | 120 |
| R: TGGGCTAGGATACTGACCAGA |
| *ETIF* | Bridget Crampton, pers comm | GRMZM2G445905 |  |  | 1 | eukaryotic translation  initiation factor 4e-2 | F: AGAAGGGATAAGCCAAGCAG | 104 |
| R: CCGATCTCAGCACAAAACTC |
| *RPOL* | [2] | GRMZM2G034326 |  |  | 5 | DNA directed RNA polymerase I, II, III | F: AGCCAAAACGCTAAAGTGGA | 175 |
| R: TAAGTGACGAGCAAGGCAAA |
| *SRL* | Bridget Crampton, pers comm | GRMZM2G127729 |  |  | 2 | nuclear sr-like RNA binding protein | F: ACACGCCATTGTTCGAGA | 117 |
| R: CAGGTTCGGGTGAACTTTG |
| *Tps6* | [3] | GRMZM2G127087\_T03 | G-12279/ K7TGS7 | NM\_001112480/ NP\_001105950 | 10 | terpene synthase 6 | F: GAAATGCGACAAAGGGCTG | 398 |
| R: TCTTGAAGGCATCTCGTAGTA |
| *An2* | [4] | GRMZM2G044481 | G-14667/ Q672R4 | NM\_001111787.1 | 1 | *ent*-copalyl diphosphate synthase 2 | F: TGTTCTTGTGAAGGCAGTTC | 236 |
| R: TCATTCGAGCTAAAAGCAGA |
| *CPS3* | This study | GRMZM2G068808 | GDQC-104441  /K7THR6 | XM\_008664609.1 | 10 | copalyl diphosphate synthase | F: AGCCTTAGATGGATCGTTGAG | 159 |
| R: GAATGACAAACCTTTCTCGCAC |
| *KSL2* | This study | AC214360.3\_FG001 | GDQC-5387/ B7ZYQ8 | DAA54948 | 3 | kaurene syntase-like 2 | F: ACTCATCTCCGCTCACGAAT | 88 |
| R: ACCGGGGAGTTGATCTTCTT |