## Supplementary Table 27 - List of primers for amplifying the fragments of the “elaborate design” of the anthocyanin pathway with several copies of the chalcone synthase and diagnostic PCR.

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| Primer number | Primer name | Sequence (5’ to 3’) |
| 14823 | YPRCtau3\_pTEF1\_fw | ACAGTTTTGACAACTGGTTACTTCCCTAAGACTGTTTATATTAGGATTGTCAAGACACTCCCTTGCCAACAGGGAGTTC |
| 18003 | can1\_pTEF1\_fw | GATGAGAAAAGTAAAGAATTGTATCCATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGCCTTGCCAACAGGGAGTTC |
| 18004 | can1\_tMDH1\_rv | GGTGTATGACTTATGAGGGTGAGAATGCGAAATGGCGTGGGAATGTGATTAAAGGTAATAGTTTATTCATCATTATCATCATCATCATC |
| 18005 | X2\_pTEF1\_fw | TCACAGAGGGATCCCGTTACCCATCTATGCTGAAGATTTATCATACTATTCCTCCGCTCGCCTTGCCAACAGGGAGTTC |
| 18006 | X2\_tMDH1\_rv | GTCATAACTCAATTTGCCTATTTCTTACGGCTTCTCATAAAACGTCCCACACTATTCAGGGTTTATTCATCATTATCATCATCATCATC |
| 18007 | YPRCtau3\_tMDH1\_rv | ATAATTATAATATCCTGGACACTTTACTTATCTAGCGTATGTTATTACTCGATAAGTGCTGTTTATTCATCATTATCATCATCATCATC |
| 18008 | SPR3\_pTEF1\_fw | AGAAATAAATAAATAAATAATAAAAACCTAAAATTCCTTTTGCGTCATTGAATTTTTATTCCTTGCCAACAGGGAGTTC |
| 18009 | SPR3\_tMDH1\_rv | TTTATTATGTAGAGCAAAGCTTGCGCGAAATTATTGGCTTTTTTTTTTTTTTAATTAATAGTTTATTCATCATTATCATCATCATCATC |
| 18225 | CAN1\_pAgTEF1\_fw | GATGAGAAAAGTAAAGAATTGTATCCATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGACATGGAGGCCCAGAATACC |
| 18234 | chunk7BC\_pTEF1\_fw | CCGCTGCCACCACGCCAAGCGCGGTTAAACCGACGGTATCGGCGGTGGAATGAGTACCCACCTTGCCAACAGGGAGTTC |
| 18235 | chunk7BC\_tMHD1\_rv | TCACGGCTGCCTGGGCTGTGCGGAAAATGGTTTCTGGGATCGCGGTTCGTTCTACAGCCGGCGTTTATTCATCATTATCATCATCATC |
| 18236 | chunk15CD\_pTEF1\_fw | AGATATACCAGACAAATCAATGTCAGAATCCAAATCAGATATTCCCGGCGTATTTATCCGCCTTGCCAACAGGGAGTTC |
| 18237 | chunk15CD\_tMHD1\_rv | ATATTGAAAACATTAATGCGTGTGATGATGTTTTTTCTGAGTATTGTTTTGATGATGAAAGCGTTTATTCATCATTATCATCATCATC |
| 18238 | tADH1/SHR-N\_pTEF1\_fw | CAATGAGTTGATGAATCTCGGTGTGTATTTTATGTCCTCAGAGGACAAGATCAGCAGCCACCTTGCCAACAGGGAGTTC |
| 18239 | pPYK1/SHR-N\_tMHD1\_rv | TATTTTTCTTAGTTCTGAAGTTTGACCACGTTTTCTAGGCTTTGATGCAAGGTCCACATAGCGTTTATTCATCATTATCATCATCATC |
| 18240 | chunk9CD\_pTEF1\_fw | AACCAGCGACGGATATTGCTGTGCCAGTTGTCGGGCAAGCGTAATGCCGTCGATATCCGGCCTTGCCAACAGGGAGTTC |
| 18241 | chunk9CD\_tMHD1\_rv | CTGTTGGCAATGCCGCGCAGGCTTTAGAGACACTGCAAAATAGCGAACCGTTTGCTGCCGGCGTTTATTCATCATTATCATCATCATC |
| Diagnostic primers | | |
| 92 | YGR059w CTRL RV | ATGATGTCGCGCATTTGATGCCTTAAATAC |
| 2496 | FW-conf-upstrm | CGGGAGCAAGATTGTTGTG |
| 2497 | RV-conf-dwnstrm | GGTTGCGAACAGAGTAAACC |
| 2820 | Probe AmdS fw | AGCTTCTGCTGCTGACTTGG |
| 2908 | D\_FW PDH construct ctrl | GGATTGGGTGTGATGTAAGGATTCGC |
| 3853 | Fus GF cassette fw | GCTGCATCCTTCCCATGCAAAGTG |
| 6028 | AmdS ORF rv (DT37) | TGTCAGCAGCCAATTCTTC |
| 7376 | FW\_x-2\_outside | GGTCTAGGCCTGCATAATCG |
| 7377 | RV\_X-2\_outside | TGCGGCATCATGTCTACTTG |
| 13261 | YPRCtau3 dg FW | AATACGAGGCGAATGTCTAGG |
| 13262 | YPRCtau3 dg RV | GCCTCCCCTAGCTGAACAAC |
| 13336 | TEF1p seq | GCTCATTAGAAAGAAAGCATAGCAATC |
| 17360 | CHS\_Citrus\_reticulat\_fw | CGGTTTCGGTCCAGGTTTGAC |
| 17950 | AtCHI1 dg - FW | CCCGTTCTTCCGTGAAATAG |
| 18156 | AM\_dg\_fw | AACATATGAGCGGAAGAC |
| 18157 | DZ\_dg\_rv | GAATCACAGTCGCCCTTG |
| 18158 | DZ\_dg\_fw | CAAGGGCGACTGTGATTC |
| 18159 | ED\_dg\_rv | ATATCGGCCATCGTGCCTTG |
| 18160 | ED\_dg\_fw | ATGGCCGATATTGCGTTGAG |
| 18161 | EE\_dg\_rv | CGATATTGCCAGTCAGGTCAG |
| 18162 | EE\_dg\_fw | CCTGACTGGCAATATCGTTAC |
| 18163 | EF\_dg\_rv | ATGGTCGTGGACTCTATCTG |
| 18164 | EF\_dg\_fw | GATAGAGTCCACGACCATCC |
| 18165 | tSDH4\_dg\_rv | CGCCGGTATATTCCTTTGC |
| 18378 | diag\_7BC fw | GAACAAACCGCGCATTCC |
| 18379 | diag\_15CD fw | GGCAGAGCTTCAGAGTCTATC |
| 18380 | diag\_15CD rv | GACGTGTCGGTATCTAAAGC |
| 18381 | diag 9CD fw | TCCCGCGGAATAATGAACTG |
| 18382 | diag 9CD rv | CGCTAACCCAGCGAATTAC |