|  |  |  |  |
| --- | --- | --- | --- |
| Gene ID | Gene name | Forward primer (5’-3’) | Reverse primer (5’-3’) |
| Unigene\_19761 | PtGPP | AGATTGAAAGGCTGAGGCGGTAC | AGCTGCTCCTTGGCGTCCCT |
| Unigene\_85922 | PtHDS | CGGCAGTGAGCACCCGATAA | TGAATGTCCGCCACCAGAGG |
| Unigene\_91994 | PtMCT | CCCACTATTAGGACAACCAA | AAGTTCCGAATATCCATCAA |
| Unigene\_83731 | PtFPP | TACCTGGAGGAAAGCTAAAC | CTTGGAGCCATTCGATACAC |
| Unigene\_26600 | PtAACT | GGTGCTGGAATACCAAATAC | ATCCCATCAACAAGAGTGTC |
| Unigene\_06634 | PtHMGR | AAGTCAGTGGTATGTGAGGCAATC | GCCAGTGGCAATGAAGACAG |
| Unigene\_13233 | PtTPS1 | TCAGGGATGTATGATGTGCT | ATGGGAATTTACAAGTCCTTTC |
| Unigene\_68642 | PtTPS2 | TTTTGGGTGAAGGGATTACG | TTTGAGCAGAGTGCTGTGGG |
| Unigene\_84362 | PtTPS3 | AATTCTTCGGCTTTGGGATG | CAAGATTGGGAGCGAAATGA |
| Unigene\_16999 | PtTPS4 | CACTCGTCTATGCTCCTTCG | AACCATCTCGCTTATCTGCT |
| Unigene\_13044 | PtTPS5 | ACTTTGTCTCCCTTCGGTTTC | AGTTTGCAGCGTCGTCTAAT |
| Unigene\_39728 | PtTPS6 | CACTCGTCTATGCTCCTTCG | TCTCGCTTATCTGCTCACAA |
| Unigene\_63066 | PtTPS7 | GGCTTATGCCATGATGCTAA | TGAGATGCCTGACACTGAAT |
| Unigene\_02713 | PtDAHPS1 | AAGAAGGGAGCCACCCAGGAG | CGGGAGCAAAGGTCGTCAAA |
| Unigene\_34333 | PtDAHPS2 | AGGATCTGGAGACGGTGCTG | TGAAGGTGTCCCTGATGTTGTT |
| Unigene\_10130 | PtSK | ATGATGGAGGCTACTGCTGC | GATGAATGGAAGTGCGGTGA |
| Unigene\_31918 | PtDHQS1 | GGATTTGGCTATGGGCAGTG | TCTCAGGTGGAGCAGTTGGA |
| Unigene\_37185 | PtDHQS2 | AGGAAAGTGGAGTGAGGGCTAC | TGCTGCAAGATTCGGAGAAC |
| Unigene\_37871 | PtEPSPS | TGGCTGTCGTTGCTCTGTAT | TGTTGCTCCCAGCTTTCTTA |
| Unigene\_40672 | PtDHD/SHD | CCAAACTGGGAAGGAGGTCA | TGCGTGCTACATCACAAATGTCTA |
| Unigene\_35104 | PtCS | TGCCCTCATCCTTCTCGTCC | TGGCCTGGCCTCCTTCTATC |
| Unigene\_52528 | PtBEBT1 | CTCCCAAAGTGCATCCTG | CTTCAAAGTGGCGATGTCT |
| Unigene\_90522 | PtBEBT2 | TGCTGGCTACTACGGTAATGC | CCAGTGGTATCCGAAACAAAG |
| Unigene\_23691 | PtBCMT1 | GAAACAAGTTATGCCACCAA | AGCAGTAGGACCAGATGAGC |
| Unigene\_32872 | PtBCMT2 | GCCGATCTGGGTTGTTCATC | CATTTCCAGGGAGGTCGTTC |
| Unigene\_62522 | PtBCMT3 | AGAGGAGGAAAGAGTGGATG | CCCAGTTCAACTCGAAAGTA |
| Unigene\_14565 | PtPAL1 | CCAACATTCTCGCCGTCCTA | GGGTGGTGCTTCAGCTTGTG |
| Unigene\_88002 | PtPAL2 | CCGACGGCAAGGCTATCAAC | ACCCCACGGCGGTGCCGTTGA |
| Unigene\_35211 | PtPAL3 | CCGACGGCAAGGCGATCGAT | ACCCCACGGCGGTGCCGTTCA |
| Unigene\_68795 | PtIEMT | TATTTGGAGACCTTAGCA | TTACGCAGCTCTATCACT |
| - | Actin-1 | CTATGAACTGCCTGATGGAC | TGGAGTTGTAGGTTGTTTCG |

Table S1 sequences of primers used in this experiment