**Table S1. The list of qRT-PCR primers of genes selected in *Dendrobium catenatum*.**

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| --- | --- | --- | --- |
| Gene name | Gene model | Forward Primer | Reverse Primer |
| 18S rRNA | Dendrobium\_GLEAN\_10067105 | CCAGGTCCAGACATAGTAAG | GTACAAAGGGCAGGGACGTA |
| PMM | Dendrobium\_GLEAN\_10056672 | TTGACCGCATCGCACCTA | CTCGGTCGCAGATTTGTT |
| MPI | Dendrobium\_GLEAN\_10071332 | GGTAAAGCGACCATTCAGG | CAATCGTCTGCTCAGAGT |
| MPI | Dendrobium\_GLEAN\_10071336 | GCATGGCGACATCAGATAA | ACGCAAGATTTCAGGAAGG |
|  | Dendrobium\_GLEAN\_10031143 | TTGTTCCAGGGCATGAGAT | CAAGAACGGCAAGCACCTA |
|  | Dendrobium\_GLEAN\_10058899 | TACTGTGGCATTTGCCATTC | TGACGACGCCAACAATTTC |
|  | Dendrobium\_GLEAN\_10059177 | ATCTGCGGCCATCGTACTA | TCTCGGAGGAGGTTCTGAC |
|  | Dendrobium\_GLEAN\_10118528 | CAATGTGCTGTCCACTTCAGA | AGAAGATGGCTGATTCAATCC |
| srlD | Dendrobium\_GLEAN\_10023268 | TGGAACTCAGATCACGGTC | AGCTACAGGAAAGTGCACAA |
| srlD | Dendrobium\_GLEAN\_10023269 | GGAGAGACTGCAGGAGAA | GGCAGGTTGATTGGTACG |
| ALDO | Dendrobium\_GLEAN\_10023929 | TCCAATGCTACTTGTGGGAAAC | CAGACCAGGAGCTGAGACTA |
| ALDO | Dendrobium\_GLEAN\_10046247 | GCCCTTCGTCGAAGTTCTA | GATCATCGAGTCCTTGCG |
| ALDO | Dendrobium\_GLEAN\_10040110 | AGACAATGGACTTGTTCCG | AGAACACCTCAGCCCAGA |
| fruK | Dendrobium\_GLEAN\_10138390 | GCTCCAAGATAATCCGGCA | ATGTGTACCTCTAGGGCTG |
| fruK | Dendrobium\_GLEAN\_10024822 | GAGGTCCTGACATTGAGGAA | CATTGCATTTGCACCAGC |
| GMPP | Dendrobium\_GLEAN\_10109385 | ACAAGCTAATTCTTGCTGCTC | GGTTCCACATCTTCCACAATAA |
| GMPP | Dendrobium\_GLEAN\_10054900 | TCTTCTAGCTGGAAGCAAGG | AGAAATGGAGACATTTGGACC |
| PFKFB | Dendrobium\_GLEAN\_10111616 | AACCTGTAGAAGAAGGTTGC | AATCCGACCAGGAAGATATCCA |
| PFKFB | Dendrobium\_GLEAN\_10121160 | AGAGAGTGGTTCAACAACG | CTGCCAGATTAGCTGCAT |
| GFPT | Dendrobium\_GLEAN\_10054184 | AAGAGATTCACGAGCAACC | ATATAATTCTCCTGCTGTGCC |
| GNPNAT | Dendrobium\_GLEAN\_10039040 | GAACATGCTAGGGTTGCAG | TGGAAGTACATCGCCATTTG |
| PGM | Dendrobium\_GLEAN\_10051178 | AGAGACACTAGACCTACTGG | ATGAAGTTGTGGAGTGGTTAC |
| UAP | Dendrobium\_GLEAN\_10021051 | CTTGCTGCTCAATCAGCG | CGACTTTCAAAGAACTTGCGA |
| UAP | Dendrobium\_GLEAN\_10021052 | GCACTCTTCGAGGCATTG | CAACGACTATGAAGGCGGA |
|  | Dendrobium\_GLEAN\_10126101 | AATGCCATAGTATGCAGTGT | GAAACCCTTGGTGACCATTC |
| AXS | Dendrobium\_GLEAN\_10045157 | TAGTGGAGAACACTCCTGATGA | GCAAACCATCTCTTAGAACGAC |
| AXS | Dendrobium\_GLEAN\_10051720 | AGAATGGACTTTATTCCTGGAG | AAGCTTCAAAGGTTCACGAC |
| UXE | Dendrobium\_GLEAN\_10125412 | AACGGTGAAGGAGTTTGTG | GTAAACTTCAGCATAGTCGCC |
| ASD | Dendrobium\_GLEAN\_10028711 | GGGCATGGGACATGGATTTA | TTAGCCACTCTCCCTCAACA |
| ASD | Dendrobium\_GLEAN\_10026326 | AATCTGGCATTCGATGTCC | ATGCTTCTTTGGCGAGTTA |
| ARA | Dendrobium\_GLEAN\_10067468 | TGGATTCTGGTGCTGTTCA | CCACTCAACCTCAGTTGC |
| ARA | Dendrobium\_GLEAN\_10066923 | GTTACCTTCTGGTTGGCTG | TGAAGCATAAGGGCACGAG |
| GAE | Dendrobium\_GLEAN\_10031397 | GACTTCACCTACATTGACGAC | GGTGTTACCAAGGTTGAAGAC |
| GAE | Dendrobium\_GLEAN\_10128035 | AGGAGATCACTCACACCTACAA | AAGGAGAAATAGGCCATGTCA |
| GALE | Dendrobium\_GLEAN\_10077593 | AGCAATAATTTGATCGGGACAT | CAGGTTGACCATAAACAGTAGT |
| GALE | Dendrobium\_GLEAN\_10059583 | CAACAACAATTTGATCGGCAC | TTCAGGTTGCCCATAAACAG |
| UGP | Dendrobium\_GLEAN\_10053350 | TAATGTTGTTGCTGCAACTGA | CCAAAGTTCCTTTGACACG |
| UGP | Dendrobium\_GLEAN\_10052658 | AAATGGAGATTATCCCAAACCC | CGTGGAACATTTACTCCGATAG |
| UDGH | Dendrobium\_GLEAN\_10005633 | ACCTAAGTTCTTGAACGCC | GGCAACTTCTGGAAGACC |
| UDGH | Dendrobium\_GLEAN\_10048133 | AATGCGTGGAACAGTGAC | TCTCTACCTCGGTGCTGA |
| PGM | Dendrobium\_GLEAN\_10079430 | TATGCCAACACGAAGACAATC | CCACATCATAACCTCCTTCAG |
| PGM | Dendrobium\_GLEAN\_10069896 | TGGTACAGGATCAGATCACAT | GCTACTGATACCAACTTCTCG |
|  | Novel00587 | CCAGGTCCAGACATAGTAAG | GTACAAAGGGCAGGGACGTA |
| TPI | Novel04679 | GGAAATTCTTCGTCGGCG | ACCTCAACAACATCCTGTG |
| UXE | Novel01395 | ACATCCTTGAACATCCACAC | CTCTCCTGTAAATGCTGAAACC |