**Table S2. Primers used for gene expression analysis by qRT PCR.**

|  |  |  |
| --- | --- | --- |
| Gene |  | Sequence |
| Glutamate dehydrogenase (*AhGDH*) | Forward | ATGCATTCCATACTTCCATTT |
| Reverse | ACACCGGAGTAGTTACACAATATTA |
|  |  |
| Asparagine synthetase (*AhAS*) | Forward | GCACATCTCGTTTCATTCAG |
| Reverse | GGGACACAAGTTACAACACAAG |
|  |  |
| Nitrate transporter (*AhNRT1.4*) | Forward | GAGGAGAAGTGCTAGCAGACTAC |
| Reverse | CAAGAATGACACCAAACATCA |
|  |  |
| Alanine aminotransferase (*AhAlaAT*) | Forward | ATTAAGGGACTGCGTGAAAC  |
| Reverse | TGAAGCAGAATACAACGGAT  |
|  |  |
| DOF transcription factor (*AhDOF1*) | Forward | GGCTATTTACACACCAGGTTC |
| Reverse | TAATACCACTAACCAAACGGAC |
|  |  |
| Glutamate synthase-NADH-dependent (*AhGOGAT*) | Forward | GCTGGCAGAGATATGAAGACTAT |
| Reverse | ATCTATCTTGGCCCCACTACC |
|  |  |
| Glutamine synthetase (*AhGS1*) | Forward | GCTGAGACAACTATCATCTGGA  |
| Reverse | ATGCAGTACTAGATTCACCTTCC |
|  |  |
| Nitrate transporter (*AhNRT1.1*) | Forward | TGTGGAAGAAGAAGAAGATGG |
| Reverse | CTCTTAAATTATTGCACGGGTA |
|  |  |
| Pyruvate phosphate dikinase (*AhPPDK*) | Forward | GCTTGAAGGTTGGTATCTGTG  |
| Reverse | CTAATTCATCTGGTGACTCGTG  |
|  |  |
| Xyloglucan endotransglycosylase (*AhXET*) | Forward | ATCTTGATTCATACCAATATAGGAGA |
| Reverse | GTAGTTGGTAGTTGATGGTATTGATT |
|  |  |
| α Expansin **(***Ah****EXPA3***) | Forward | CAAGAGCTCAATAGTCATGC |
| Reverse | GTTAGTGTGACCGTGTAATTG |
|  |  |
| Phosphoenolpyruvate carboxylase (*AhPEPC*) | Forward | AACGCTGCTCGATATTTCTAAT |
| Reverse | TGACAATAATACAGCAGTAAGAAATC |
|  |  |
| NADPH Malic enzyme (*AhME*) | Forward | CAATGCAGGGTCTTCTCTAATAG |
| Reverse | ATTCAATGTGCATCATACGC |
|  |  |
| Triose-phosphate transporter (*AhTPT*) | Forward | AAGTCTGCTTGAGTTGATCGT |
| Reverse | TACAGATTGATAATTGTTCATTCTCC |
|  |  |
| β- Amylase (*AhBAM*) | Forward | GAGCTTACAAGTCACAATACCAC |
| Reverse | GCAAGCTCAAAAGGTTTATG |
|  |  |
| Cytosolic invertase (*AhCINV1*) | Forward | ATATTGCTTCTTCATTGATGTTTG |
| Reverse | TAATTTTATCgAACAATgTCTTTTgAA |
|  |  |
| Sucrose synthase (*AhSuSy2*) | Forward | GAAATCCGTACCTCTGGCATC |
| Reverse | CCTggCAAAAgTATTCCgAAA  |
|  |  |
| Sucrose transporter (*AhSUT1*) | Forward | CTCgACgTAgCCAACAACACTCTTC  |
| Reverse | GTGAATGGGAATATTTTGTAGAGACGG |
|  |  |
| Hexose transporter (*AhHXT*) | Forward | GTGTTATTCTTAATGCTGCTGC |
| Reverse | CCGATTGTGACGTTGAGTT |
|  |  |
| Dormancy/auxin associated protein(*AhDRM3*) | Forward | CCTTGCTACTGTCTAATATGTCG |
| Reverse | CCTATTACATTCACGGATTACAT |
|  |  |
| Actin (*AhATC*) | Forward | CGTGACCTGACTGATTACCTTA |
| Reverse | GCTCGTAGTTCTTCTCAATGGC |
|  |  |
| β-tubulin (*AhTUB*) | Forward | TCTCAGCAGTATGTCTCCCTCA |
| Reverse | TCTACTTCTTTGGTGCTCATCTT |