**Table S3:** Details of the primers and genes used for validation of the transcriptome results by q-PCR

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| **Gene ID** | **Annotation** | **Primers (5’ to 3’)** |
| LOC\_Os08g02520 | OsSAUR31 - Auxin-responsive SAUR gene family member, expressed | Forward GGGCATTTCGCGGTGTA  Reverse CAGTCGAAGCCGAATTCCT |
| LOC\_Os06g05020 | early nodulin 93 ENOD93 protein, putative, expressed | Forward CGCGTGAGGCGAACATT  Reverse CCATGGCAGCATCCTCAC |
| LOC\_Os04g40410 | high affinity nitrate transporter, putative, expressed | Forward TGAAGGTGACCCTGTGCTA  Reverse CTGGGCGATCTTGAACTGAC |
| LOC\_Os04g45970 | glutamate dehydrogenase protein, putative, expressed | Forward TCTCATCCCATGCGCTTTAG  Reverse CAGGTAATATGGTCACTCCCTTC |
| LOC\_Os12g25090 | expressed protein | Forward AGGCCAAGAAGGTGATTCTC  Reverse GACGGTGTCGACGAAGATT |
| LOC\_Os07g37850 | expressed protein | Forward GGCGGAGGAGAAGAAGAC  Reverse AGCCCAGGGATCAACAC |
| LOC\_Os10g42960 | urea active transporter, putative, expressed | Forward CTTCCTCGCCAGCTACATC  Reverse GCCATGAGGCGATCATACA |
| LOC\_Os02g40710 | ammonium transporter protein, putative, expressed | Forward CAGGGTACGACTACGACTTCT  Reverse GGAAGGCGGAGTAGATGAGATA |
| LOC\_Os07g46460 | ferredoxin-dependent glutamate synthase, chloroplast precursor, putative, expressed | Forward CAAGGGAAGCCACACTACAA  Reverse CAGGACTTCTGCCACTTCTTAG |
| LOC\_Os08g37400 | ZF-HD homeobox protein, putative, expressed | Forward TATCGGGAGTGCCTCAAGAA  Reverse CTCCTTGCGGTGGAAGTTAC |
| LOC\_Os12g39360 | aspartic proteinase nepenthesin precursor, putative, expressed | Forward CGCTGCCGTACTACAACTC  Reverse AGATCGCAGAAGTGGATGATG |
| LOC\_Os11g07460 | TCP family transcription factor, putative, expressed | Forward AGCACCACCCGTTCTACTA  Reverse CAGCAGCGGGCACTATG |
| LOC\_Os12g03150 | myb-like DNA-binding domain containing protein, putative | Forward ACTGCCCATCCTCCTCATA  Reverse GTCGTAATAGCCGCTGTCATAG |
| LOC\_Os08g43600 | bZIP transcription factor domain containing protein, expressed | Forward GAGCGGGAGCTGCTGTA  Reverse CGACTCGCGGTTCTTCATC |