Supplementary Table and Figure

**Supplementary Table 1** |Specific primers for gene amplification

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| --- | --- | --- | --- |
| **Enzyme/Protein** | **Target gene** | **Forward primer (5′→3′)** | **Reverse primer (5′→3′)** |
| Nitrate  transporter 1.1 | *NRT1.1* | GGTTGAGGCTTGTGAGAGGTT | GTTATTGGCGGCGTTAGCATTC |
| Nitrate reductase | *NR2* | GGAATAACGCCGATCTACCAAG | GAATATCCTCCTCCGTCCGATT |
| Nitrite reductase | *NiR* | TTGGGAGGGAGGATTGGGAG | CATCTTCTTCCCTGTCCCGT |
| Glutamate synthase  [NADH] | *GOGAT* | CAAGGACTTACGAGGTGCTAAC | CGGCTGTCTGTCTCCATGT |
| Glutamine synthetase | *GS2* | GCCTATCCCAACCAACAAGAG | GCTCCAATGCCACAGTAGTATG |
| Glyceraldehyde-3-phosphate dehydrogenase | *GAPDH* | ATACTGTGCACGGACAATGG | TCAGCCCATGGAATCTCTTC |



**Supplementary Figure 1** Effects of K deficiency on the NO3-/NH4+ ratio in leaves and roots of the sweet potato