

Figure S1. Phenotypic analysis of the *cipks* mutant germinated on LN medium. (a) Phenotypic analysis of the *cipk4*, *cipk5*, *cipk7*, *cipk8*, *cipk11*, *cipk14*, *cipk17*, *cipk21* and *cipk22* mutants germinated from 0, 0.05, 0.1, 1, and 20 mM NO_3^- . (b) Primary root length of the tested lines under the different nitrate treatments ($n = 24$). (c) Lateral root density under the different nitrate treatments ($n = 24$). Error bars represent means \pm S.E. Asterisks indicate statistically significant differences according to *t*-test.

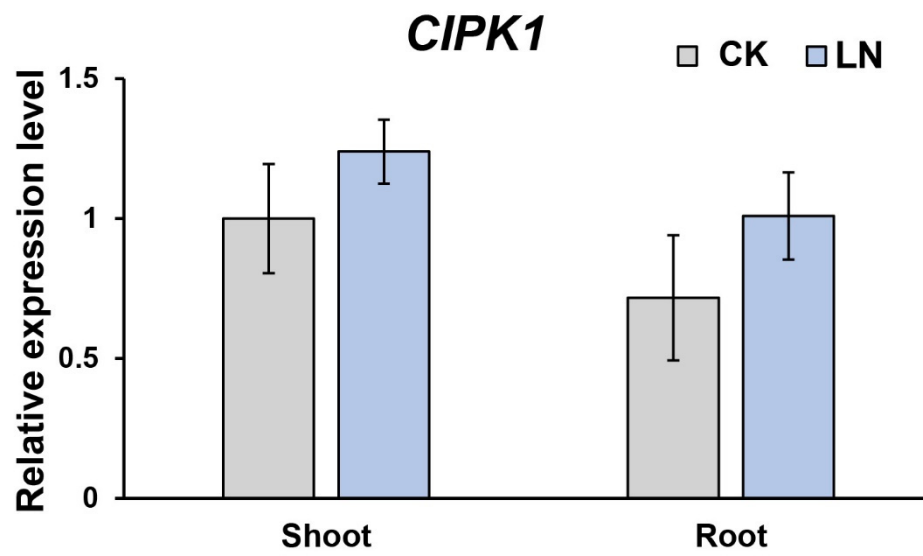


Figure S2. Expression of *CIPK1* in response to nitrate deficiency. Expression of *CIPK1* in shoot and root are analysed under nitrate deficiency. ($n = 24$). Error bars represent means \pm S.E. Asterisks indicate statistically significant differences according to *t*-test.

Table S1. Primers used in RT-PCR

Primer	Sequence (5'-3')
<i>Actin-F</i>	TTCAGCTTCATCGGCCGTTGCATT
<i>Actin-R</i>	CATCAGCATCGGCCATGGTCTACGA
<i>NRT1.1-F</i>	TCATCGCCGATACCTTTCTC
<i>NRT1.1-R</i>	CGGAATTGTTTCAGTGTGTGG
<i>NRT2.1-F</i>	TCCACAGATCCAGTGAAAGGTAC
<i>NRT2.1-R</i>	TGACTTGGCGTTCTCGGCA
<i>NRT2.2-F</i>	TTGCTGATGGAGCCAAGACC
<i>NRT2.2-R</i>	TCAATGACACATGATCAAGCATTG
<i>NRT2.4-F</i>	GCTTGTGGAGCTACCTTTGC
<i>NRT2.4-R</i>	GAAGTTTCCACCAGCTCCAG
<i>NRT2.5-F</i>	AGGATCGACATACACGAGAGAGACG
<i>NRT2.5-R</i>	GGCTCCGATATGTAAGTTCTTTTC
<i>NAR2.1-F</i>	GACCTGCCCACACAAGATCA
<i>NAR2.1-R</i>	TGGAGGCAATATCTAGGGACGC