

Supplementary materials

Antepenultimate residue at the C-terminus of NADPH oxidase RBOHD is critical for its function in the production of reactive oxygen species in *Arabidopsis*

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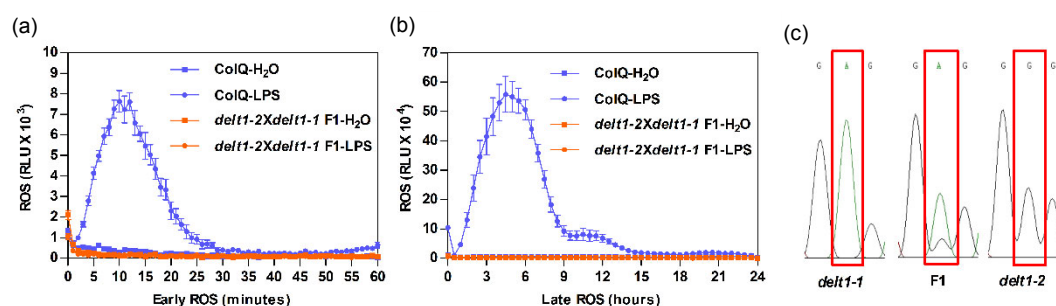


Fig. S1 Allelic mutants *delt1-1* and *delt1-2*

(a, b) F1 plants of *delt1-2* (male)×*delt1-1* (female) showed no ROS production after 50 μ g/mL LPS treatment. ROS were monitored using the chemiluminescence assay and signal was recorded for 24 h after treatment (b). To show the early ROS burst, a graph was plotted from 0 to 1 h (a). The data are shown as mean \pm SE ($n=8$). (c) F1 individuals of *delt1-2* (male)×*delt1-1* (female) are heterozygous at the *DELT1-1* mutation site. A fragment spanning the *DELT1-1* mutation site was amplified from the genomic DNA of F1 plants and sequenced to confirm the genotype

Table S1 Primer sequences used in this study

Primer	Sequence (5' to 3')	Experiment
RBOHD-F1	ATGAAAATGAGACGAGGCAA	RT-PCR
RBOHD-F2	CTTTCAGATCAAGCATCAAA	RT-PCR
RBOHD-R1	CGGTTTGATGCTTGATCTGA	RT-PCR
RBOHD-R2	CTAGAAGTTCTCTTTGTGGA	RT-PCR
RBOHD-R3	CTAGAAGTTCTTTTGTGGA	RT-PCR
RBOHD-R4	TGTTTACAACACCAAAGCTG	RT-PCR
Actin7-F	ATGGCCGATGGTGAGGATAT	RT-PCR
Actin7-R	TCTGCGGTAGTGGTGAACAT	RT-PCR
EF-1 α -F	TGAGCACGCTCTTCTTGCTTTCA	qRT-PCR
EF-1 α -R	GGTGGTGGCATCCATCTTGTTACA	qRT-PCR
qRBOHD-F	ACACATGACGAAGCCACAAG	qRT-PCR
qRBOHD-R	ACGGTCCTGAGCTTACGTGT	qRT-PCR
CTR1-F	CCACTTGTTTCTCTCTCTAG	Genetic mapping
CTR1-R	TATCAACAGAAACGCACCGAG	Genetic mapping
PHYC-F	CTCAGAGAATCCCAGAAAAATCT	Genetic mapping
PHYC-R	AAACTCGAGAGTTTTGTCTAGATC	Genetic mapping
MQB2-F	AAAAGGCGACTACTAGCA	Genetic mapping
MQB2-R	GCCATTTATTTGGTCAAC	Genetic mapping
CIW9-F	CAGACGTATCAAATGACAAATG	Genetic mapping
CIW9-R	GACTACTGCTCAAATATTCGG	Genetic mapping
K9E15-F	CTGAAGAATGCGAGTTTATG	Genetic mapping
K9E15-R	CAAAAGCTCGGGCTATTG	Genetic mapping
MRB17-F	AACTCACCGATGTAATAAG	Genetic mapping
MRB17-R	AATGTGATAATTCGTAAATA	Genetic mapping
CS9555-LP	GTCGCCAAAGGAGGCGCCGA	Genotyping
CS9555-RP	GGATACTGATCATAGGCGTGGCTCCA	Genotyping
dspm11	GGTGCAGCAAAACCCACACTTTTACTTC	Genotyping
RBOHD-F	GGGGACAAGTTTGTACAAAAAAGCAGGC TACATGAAAATGAGACGAGGCAA	Gene cloning
RBOHD-R	GGGGACCACTTTGTACAAGAAAGCTGGG TCGAAGTTCTCTTTGTGGAAGTCA	Gene cloning
RBOHD ^{E919K} -R	GGGGACCACTTTGTACAAGAAAGCTGGG TCGAAGTTCTTTTGTGGA	Gene cloning
BIK1-F	GGGGACAAGTTTGTACAAAAAAGCAGGC TACATGGGTTCTT GCTTCAGTTC	Gene cloning
BIK1-R	GGGGACCACTTTGTACAAGAAAGCTGGG TCCACAAGGTGC CTGCCAAAAG GTTTT	Gene cloning