

Supplementary Table 2. *A. thaliana* mutants with altered *Rhizoph-1* expression. Data are compiled using the ‘Mutant Surveyor’ tool in Genevestigator.

Mutated genes	Functional annotation	Anatomical part	Fold change	Number of arrays	Experiment
mkk1/ mkk2	Mitogen-activated protein kinase kinases; biotic and abiotic stress responses; mkk1/ mkk2 mutant is dwarfed and overproduces salicylic acid	Whole adult plant	5.20	2/3	E-GEOD-10646
mkk1			0.95	3/3	
mkk2			1.05	3/3	
mpk4: ctr1	Mpk4: a mitogen-activated protein kinase; loss of function results in constitutive systemic acquired resistance and expression of pathogenesis-related genes	Rosette	2.72	3/2	E-MEXP-174
mpk4			2.15	3/2	
ctr1			0.93	3/2	
brx	BREVIS RADIX (BRX) controls the extent of cell proliferation and elongation in the growth zone of the root tip	Seedling	2.61	2/2	E-MEXP-637
brx (IAA treated)			2.24		
brx (brassinolide treated)			1.30		
upb1	Transcription factor UPBEAT1 (UPB1) regulates expression of peroxidases and ROS levels	Elongation zone	2.32	2/2	E-GEOD-21876
rhd2	AtRBOHC mutant, has short hairs that burst at the tips, reduced H ₂ O ₂ levels	Elongation zone	2.05	2/2	E-NASC-54
		Lateral root	1.91	2/3	E-GEOD-6165
rpp7	Mutant resistant to <i>Peronospora parasitica</i>	Rosette	1.94	1/1	E-NASC-16
cngc1	CNGC1: cyclic nucleotide gated channel 1	Roots	0.48	2/1	E-GEOD-20222
cngc19	CNGC19: cyclic nucleotide gated channel 19	Roots	0.38	3/1	E-GEOD-20222
Umkirch-3 allele of At5g41750*	At5g41750 is a disease resistance protein of the TIR-NBS-LRR class	Rosette	0.33	3/3	E-ATMX-26

Functional annotations of the mutated genes are compiled from TAIR and annotations of respective profiling experiments.

Fold change is calculated as the levels of *Rhizoph-1* expression in the mutants normalised to those in the control plants. Control plants are wild type except for E-ATMX-26.

Number of arrays refers to the number of replicates for mutant vs. control plants.

Experiment numbers are given according to the European Bioinformatics Institute ArrayExpress (<http://www.ebi.ac.uk/arrayexpress/>) nomenclature.

* targeted by microRNA; Umkirch-1/Umkirch-3 plants used as a control.