

Figure S1

Fig. S1. Impact of different time of RL on *PRI* expression. Quantitative RT-PCR data show the expression of the *PRI* gene in WT *Arabidopsis*. Total RNA was extracted from leaves 4 h post inoculation by Pst-DC3000, plants were pre-treated with different time of RL as indicated. *Arabidopsis ACTIN2* was used as an internal control. Expression levels for each treatment were normalized to a RL-treated (0 h) plant. Values represent means \pm SD of three independent experiments. Asterisks (*) indicate a significant difference from the (0 h) at * $P < 0.05$ or ** $P < 0.01$ by *t*-test.

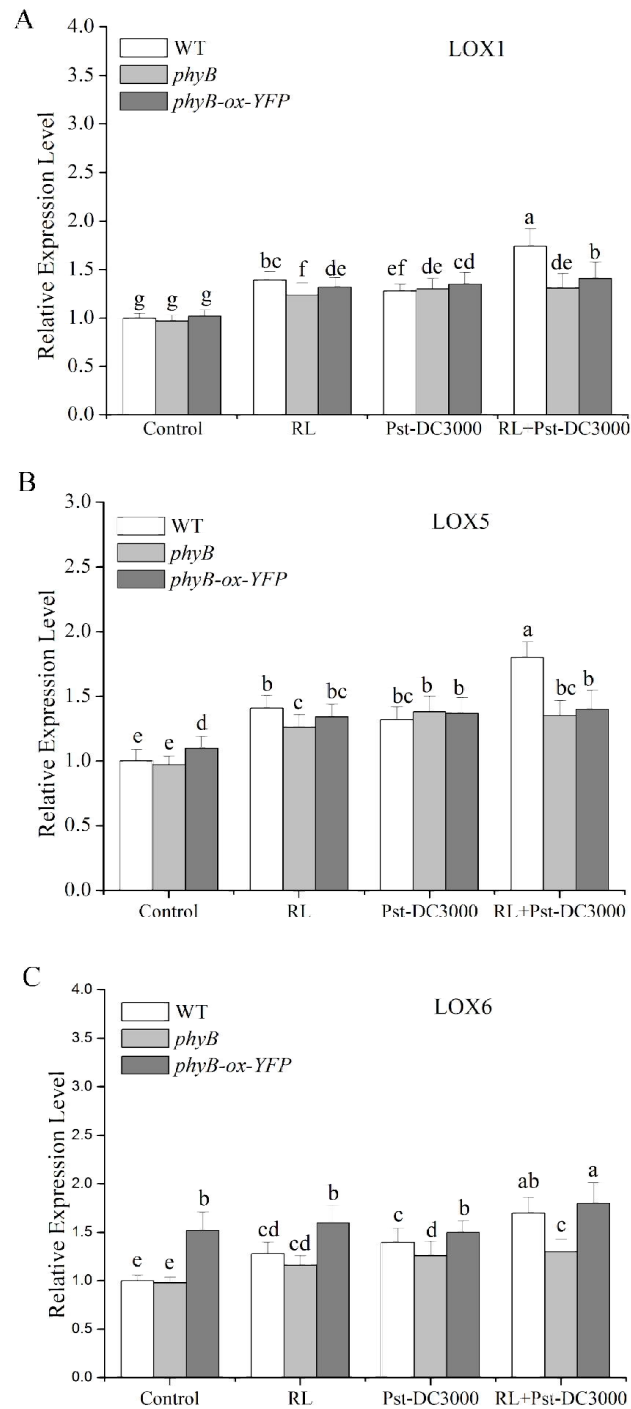


Figure S2

Fig. S2. Induction of transcription levels of *LOX1*, *LOX5*, *LOX6* by RL. (A)-(C) Transcript levels of *LOX1*, *LOX5*, *LOX6* in wild-type, *phyB*, *phyB-ox-YFP* plants. Total RNA were extracted from the leaves of full-grown *Arabidopsis* after different treatments as follows: control (no treatment), RL ($120 \mu\text{mol photons m}^{-2}\text{s}^{-1}$; 4 h), Pst-DC3000 inoculation ($\text{OD}_{600}=0.01$ in 10 mM MgCl_2), RL+Pst-DC3000 (inoculation after RL). *Arabidopsis ACTIN2* was used as an internal control. Different letters indicate statistically significant

differences between treatments (Duncan's multiple range test: $P < 0.05$). Values represent means \pm SD of three independent experiments.

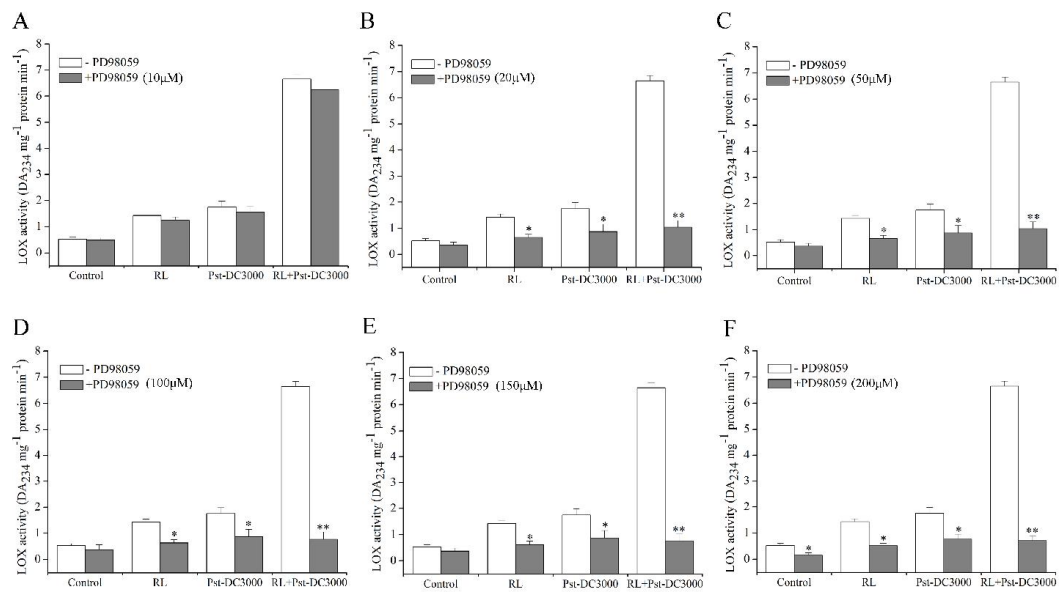


Figure S3

Fig. 3. Effect of different concentrations of PD98059 on activation of LOX. Leaves were pre-incubated with or without PD98059 for 1 h, and then proteins were extracted from the leaves 2 h post treatment. Concentrations of PD98059 in (A)-(F) were 10 μ M, 20 μ M, 50 μ M, 100 μ M, 150 μ M and 200 μ M.

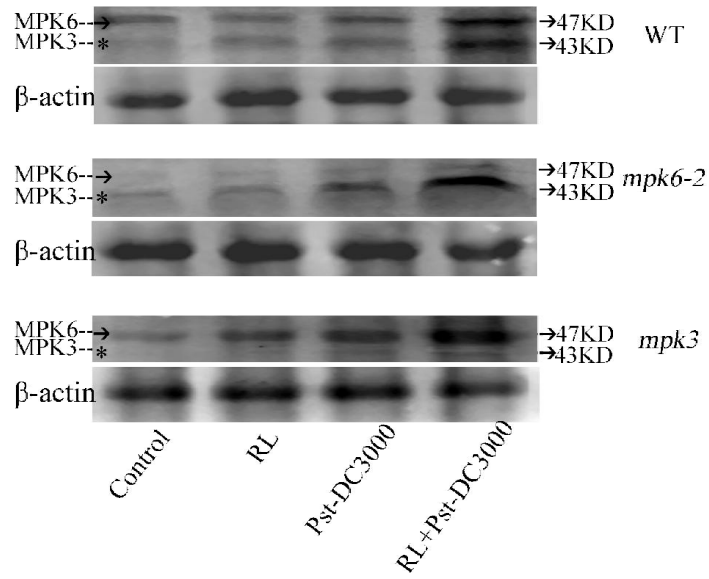


Figure S4

Fig. S4. Activation of MPK3 and MPK6 during defense response induced by RL in the WT, *mpk6-2* and *mpk3* plants. Proteins were extracted from the leaves treated as follows: control (no treatment), RL (120 $\mu\text{mol photons m}^{-2}\text{s}^{-1}$; 4 h), Pst-DC3000 inoculation ($\text{OD}_{600}=0.01$ in 10 mM MgCl_2 , 2 h), RL+Pst-DC3000 (2 h inoculation after RL). The experiment was repeated three times with similar results.

Table S1. Primers for several genes.

Gene name	Primer
LOX1	U:GATAGTGAATCATACGGTAACCAGA D:AGGATGAGGCAAGCTCAGCTCTAT
LOX2	U:CACCTGACGAAGAGTACATTGG D:GTAACACCATGCTCAGAGGTAGG
LOX3	U:TGAACATTGAGAGAGTCAAGACTTTT D:AGATAGTTCGAGTAGCATAGGCTTTGC
LOX4	U:TCGCTAACTTTGGTGAGATCGATAG D:TCGTCATCTCGAAGCATGCATATT
LOX5	U:CATACGAACAGAGCACATAGAATCA D:AAACTTTGCTGACCGATCCATATGA
LOX6	U:GCTTGAAATCAATGCTCGTGCG D:GTCAATCACAAGCCTCACGCCAC
CaM3	U:GCTCTAGAACAGGTTTCACGAAAAGGAGA D:CGGGATCCCTTAGCCATCATGACCTTAAC
Actin2	U:AGAGATTCAGATGCCCAGAAGTCTTGTTCC D:AACGATTCCTGGACCTGCCTCATCATACTC
PR1	U:CATACTCTGGTGGGCCTT D:GACCACAAACTCCATTGCAC