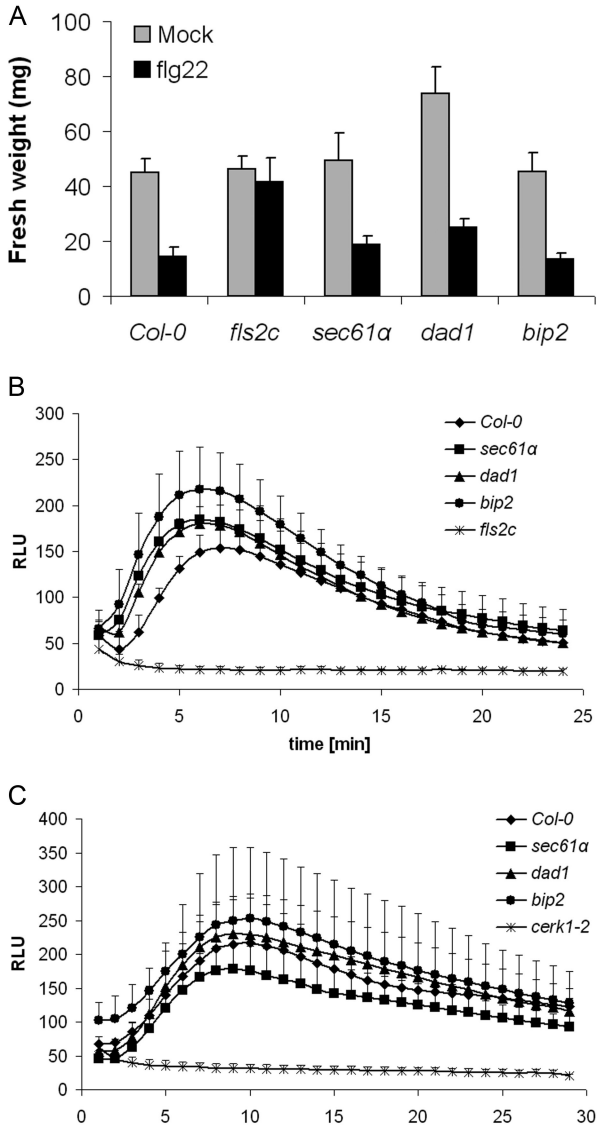
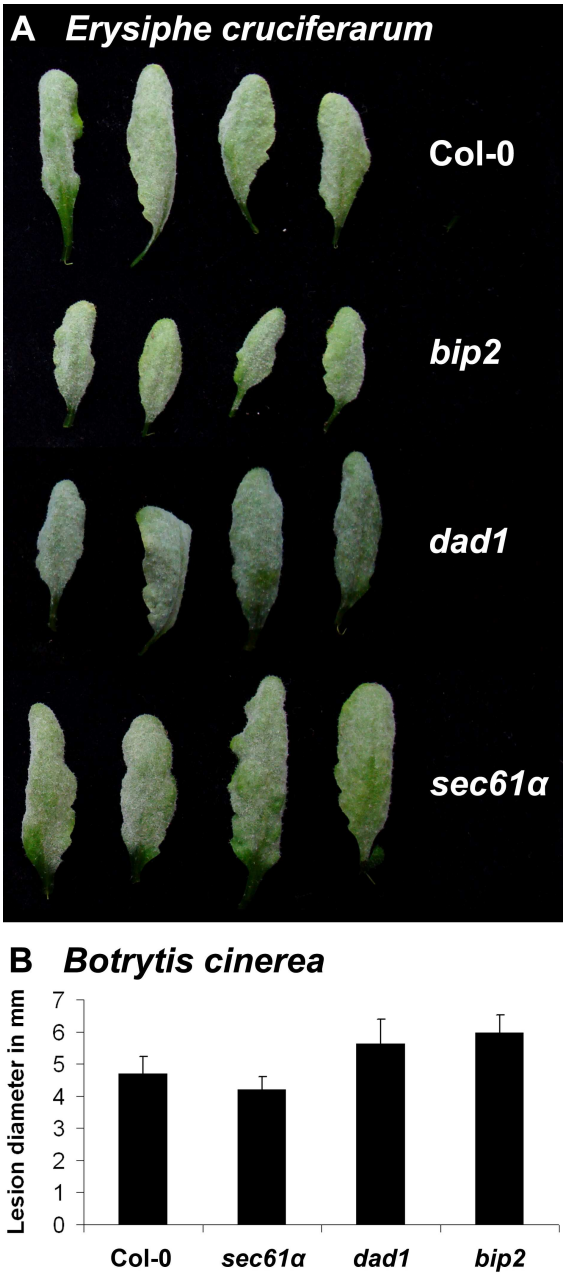


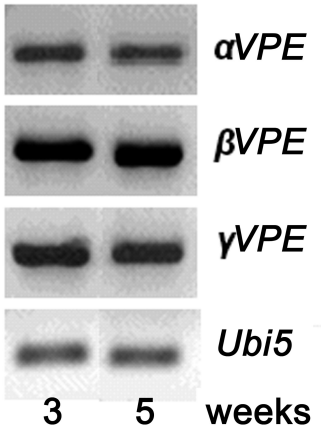
Supplemental Figure 1. Unaltered MAMP sensitivity in *sec61α*, *dad1* and *bip2* mutants.

(A) Roots of Col-0, *sec61α*, *dad1*, *bip2*, and *fls2c* (flg22 insensitive) mutants were challenged with 10 µM flg22. All mutants displayed WT-like growth inhibition. *fls2c* mutants served as flg22-insensitive control. Plant fresh weights were determined 10 days after flg22 treatment (n = 20 plants per treatment and experiment). Data represents mean values ± SE of three independent biological experiments. (B, C) Roots of Col-0, *sec61α*, *dad1*, *bip2*, *fls2c*, and *cerk1-2* (chitin insensitive) mutants were challenged with 0.1 µM flg22 **(B)** or 1 µM *N*-acetylchitooctaose (chitin) **(C)**. *fls2c* and *cerk1-2* mutants served as control. Oxidative bursts were measured in 10 mg root segments (1 cm each segment) by a luminol-based assay after MAMP application. Values are given as relative light units (RLU) over time. Data displayed are means ± SE of four independent measurements per treatment of one biological experiment. Experiments were repeated three times with similar results.



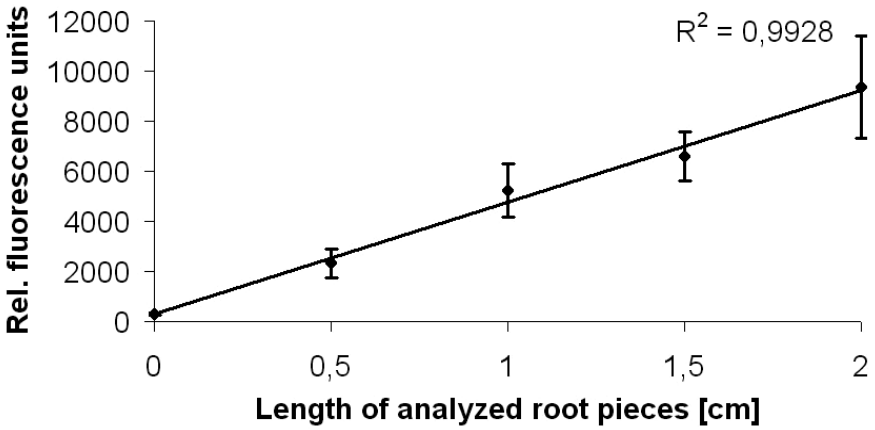
Supplemental Figure 2. *bip2*, *dad1* and *sec61α* showed an unaltered susceptibility to biotrophic *Erysiphe cruciferarum* and necrotrophic *Botrytis cinerea*.

(A) Leaves of Col-0, *sec61α*, *dad1* and *bip2* were inoculated with *Erysiphe crucifearum*. Images present leaves overgrown eith the fungus at 11 dai. The experiment was repeated three times with similar results. **(B)** Leaves of Col-0, *sec61α*, *dad1* and *bip2* were inoculated with *Botrytis cinerea* and lesion diameter was determined 11 dai. The variation between mutants and Col-0 were statistically insignificant. The experiment was repeated four times with similar results.



Supplemental Figure 3. Expression of *VPE* genes in roots of *Arabidopsis* seedlings.

Expression of *αVPE*, *βVPE*, and *γVPE* in roots of three and five-week-old *Arabidopsis* seedlings as determined by reverse transcriptase- PCR. *δVPE* was not expressed in roots. Expression of *Ubiquitin 5* served as control.



Supplemental Figure 4. Correlation between esterase-mediated cleavage of FDA *in vivo* and the length of analyzed root segments.

Fluorescein diacetate (FDA) was applied to buffer (0 cm) or root segments (of the maturation zone from two-week-old plants) of various lengths (0.5, 1, 1.5, 2 cm). Root segments were transferred to ½ MS containing FDA. After 10 minutes incubation, root segments were washed 5 times and the fluorescence intensities were measured at 535 nm after excitation at 485 nm using a fluorescence microplate reader (TECAN infinite® 200). Displayed are means (± SD) of 5 root segments per length category as relative fluorescence units.

Supplemental Table 1. List of primers used in this study.

Gene	AGI	Forward	Reverse
Pi *ITS*	-	CAACACATGTGCACGTCGAT	CCAATGTGCATTCAGAACGA
UBI5	AT3G62250	CCAAGCCGAAGAAGATCAAG	ACTCCTTCCTCAAACGCTGA
AAA-type	AT5G40010	CATCCTGCTACATTTGATACAC	AAGAGATACCCTCGTTTCCA
ADP-RF	AT1G70490	GAGACACTACTTCCAGAACAC	CCAGACCTTCATAAAGCCCT
BIP3	AT1G09080	GGAGAAGCTTGCGAAGAAGA	ATAACCGGGTCACAAACCAA
BI-1	AT5G47120	GCAGCAGCAATGTTAGCAAG	CACCACCATGTATCCCACAA
bZIP17	AT2G40950	ACAGGAGATCGGGAGAGGAT	GCTCCTCGACGTAATGCTTC
bZIP28	AT3G10800	GCCAGTGATCCTCTCTTTGC	CAGAAGACAGTGCACCAGGA
bZIP60	AT1G42990	CGGAGGAATTTGGAAGCATA	TGCTGATCCAATTCCACAAA
CNX2	AT5G07340	AGACTTTGAGCCTCCGTTGA	TCTTCCTCGTCATCCCAATC
DER1	AT4G21810	GCGGAATGATACCTTATTTGTC	GCCAAGAAGTAGTATGCGTG
ERdJ3A	AT3G08970	CAAGGTATCCCAGAAATCACTC	GAATGTAGCAAACTTACCTCGT
GRP94	AT4G24190	TTCATTAACTTCCCTATCTCCC	TTTCTCACCATCTTCCTCCT
PGS	AT2G47180	GGCTATTTGTACGCGGTGAT	CCTGTTCAGCGAAAGGAGTC
SEC61γ	AT5G50460	TTCACGAAAGTTGCAGTTCG	ACCGACGATGATGTTGTTGA
SAR1B	AT1G09180	AGAGATTAGTTCAGCACCAG	GTTGCCAAGAATAAGACAGG
sPDI	AT1G77510	GCCACTAAGGCGATGATGTT	GCTCTCTGCATCACCAACAA
UDP-Transp.	AT2G02810	CGTTGTTAATGGAGTTCGTG	GCCTGATAATAAATTTCAGCCC
αVPE	AT2G25940	GGAGGCTTGTGAATCTGGAA	TTAAGGCAGTCCCAATCGTC
βVPE	AT1G62710	TCGAAGGGATAATGCCAAAG	ATCGTCAACCAAAGGCAAAC
γVPE	AT4G32940	GCGTCGTCCTCTTTGTTCTC	TCAGGAAGAAGCCCTTCAAA
δVPE	AT3G20210	CTACAGGCATCAGGCTGACA	GTCCTCAAGCCAAGAGATGC