

New Phytologist Supporting Information Figs S1–S3 and Table S1

Article title: **The *AVR2-SIX5* gene pair is required to activate *I-2*-mediated immunity in tomato**

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Article acceptance date: 09 April 2015

The following Supporting Information is available for this article:

Fig. S1 Validation of Avr3, Avr2 and Six5 polyclonal antibodies using protein extracts of *Nicotiana benthamiana* leaves expressing the corresponding effector gene constructs.

Fig. S2 Six5 accumulates in the xylem sap of Δ Avr2-infected tomato plant.

Fig. S3 Six5 accumulates in *Nicotiana benthamiana* leaves after agroinfiltration

Table S1 Primers used in this study

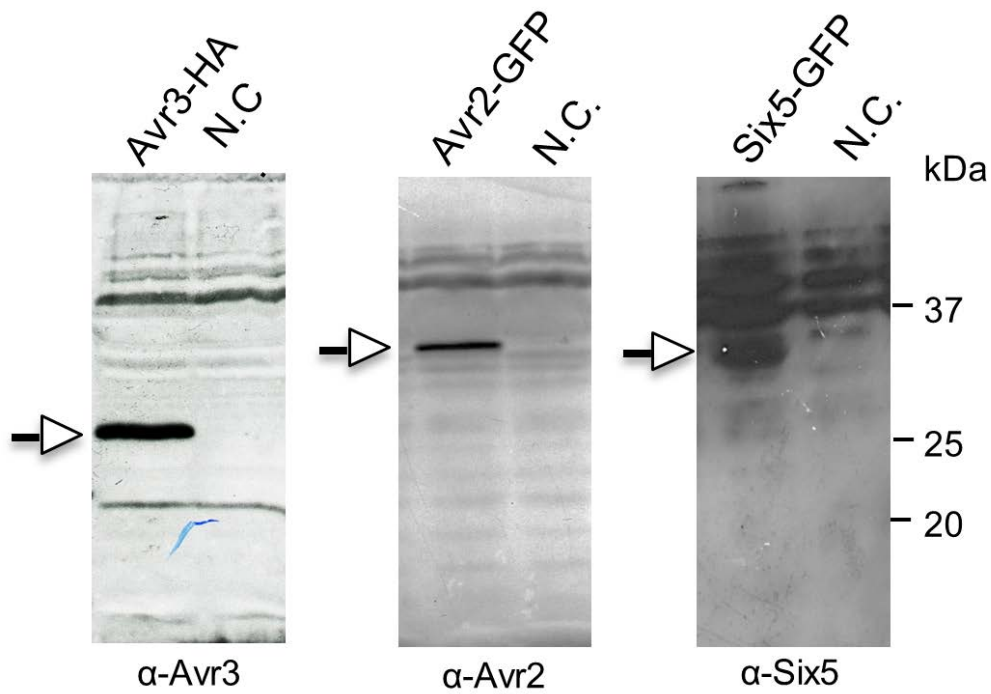


Fig. S1 Validation of Avr3, Avr2 and Six5 polyclonal antibodies using protein extracts of *Nicotiana benthamiana* leaves expressing the corresponding effector gene constructs. Proteins isolated from agroinfiltrated *N. benthamiana* leaves expressing *AVR2-GFP*, *SIX5-GFP* and *AVR3-HASBP* were subjected to SDS-PAGE, followed by immunoblotting and detection with the corresponding antibody. In the Avr3-HA, Avr2-GFP and Six5-GFP lanes a specific signal was detected corresponding to the expected molecular size of the effector proteins. N.C., negative control. Arrows indicate the predicted cross-reacting bands.

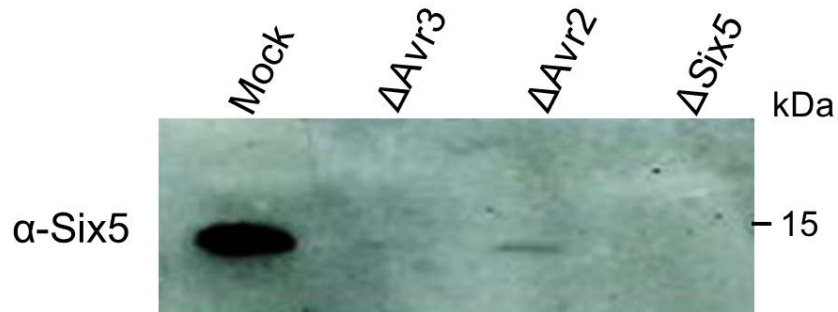


Fig. S2 Six5 accumulates in the xylem sap of $\Delta AVR2$ -infected tomato plant. Overexposure of a western blot of xylem sap isolated from tomato plants inoculated with mock (water), Fol007 (WT), $\Delta AVR3$, $\Delta SIX5$ or $\Delta AVR2$ *Fol* probed with the Six5 antibody. Six5 accumulation is found in the WT and the $\Delta AVR2$ strains and weakly in the $\Delta AVR3$ isolate, but not in the $\Delta SIX5$ knockout.

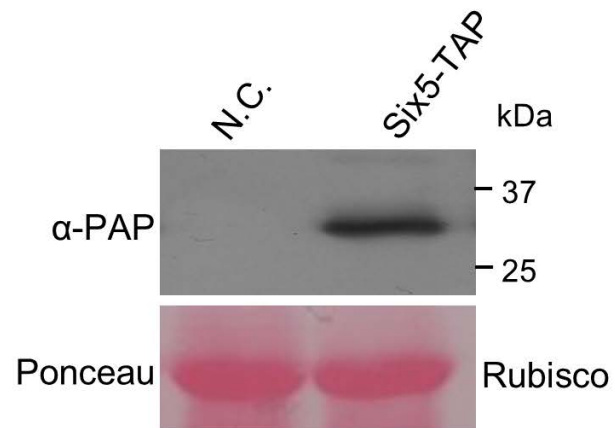


Fig. S3 Six5 accumulates in *Nicotiana benthamiana* leaves after agroinfiltration. Proteins isolated from agroinfiltrated *N. benthamiana* leaves expressing *SIX5-TAP* or empty vector were subjected to SDS-PAGE, followed by immunoblotting and detection with the PAP antibody (Sigma, St Louis, MO, USA). In the Six5-TAP lane a specific signal is detected corresponding to the expected molecular size of the tagged protein. N.C., negative control.

Table S1 Primers used in this study

Primer name	Sequences
FP1505	AAATTAATTAACCAGCTAAGCTAGCGGTTAC
FP1506	AAAGGTACCAGACCATGTTAGCAAACACAC
FP1507	AAATCTAGAGTCTACAGCTTAGGATGATTA
FP1508	AAAGCGCGCGACCTGTCGGGTAGTGATTG
FP1488	ACACGCTCTACTACTCTTCA
FP1489	GAAAACCTCAACGCGGCAAA
FP745	GCATGTTTCTTCCTTGAACCTCTC
FP2281	CATATAGCCATGTCTGGAGG
FP659	TAGAGATCATGCTATATCTC
FP2282	GTACAAAGCTAAAGTGCAAT
FP1725	AAATCTAGACATTATACCGTTTCGGTCCTT
FP1726	AAACTGCAGTCTCACATCCTATCGCGACA
FP1957	GTCAGCAAACCAATATGCTG
FP2701	AAAAAGCAGGCTGGATGAGGGATCATCAGTACTGTGCT
FP2203	AGAAAGCTGGGTCGCCGCATCACAATAGATAAC
FP872	GGGGACAAGTTTGTACAAAAAAGCAGGCT
FP873	GGGGACCACTTTGTACAAGAAAGCTGGGT
FP1873	AAACCATGGAAGATGCCGATTCATC
FP1874	AAAGAATTCAATCCTCTGAGATAGTAAG
FP3446	CGCCATGGCAAGGGATCATCAGTACTGTGCTTGC
FP3447	CGAGAATTCCTAGGCCGCATCACAATAGATAACG
FP2297	AAAAGCAGGCTCCATGGCGCCCTATAGCATG
FP2298	AGAAAGCTGGGTCTTAGTGTGGGCTGGTATATCCA
FP2646	AAAATCTAGAATGGAGCCTTTCGGGGAGGAG
FP2578	AAAAGGATCCTTAGTGTGGGCTGGTATATCC
FP962	TGAGCGGGCTGGCAATTC
FP963	CAATCCTCTGAGATAGTAAG
FP1993	GCGCTTCGAGTACATCTCTG
FP1994	CTAGGCCGCATCACAATAGA
FP157	ATGAAGTACACTCTCGCTACC
FP158	GGTGAAAGTGAAAGAGTCACC