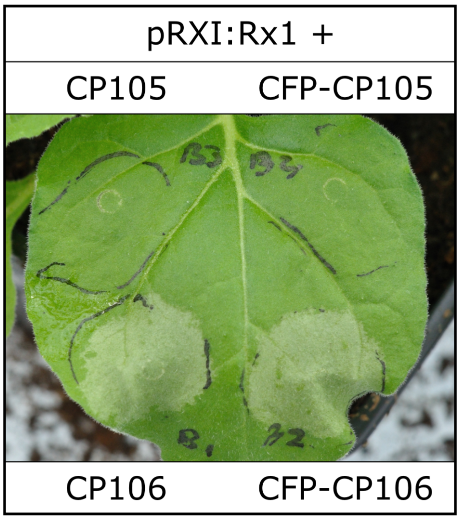
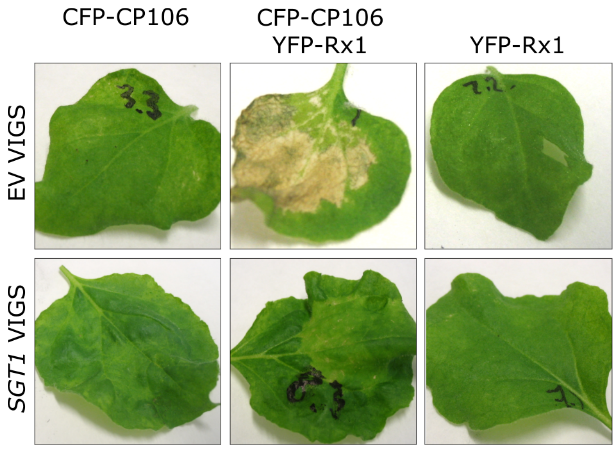
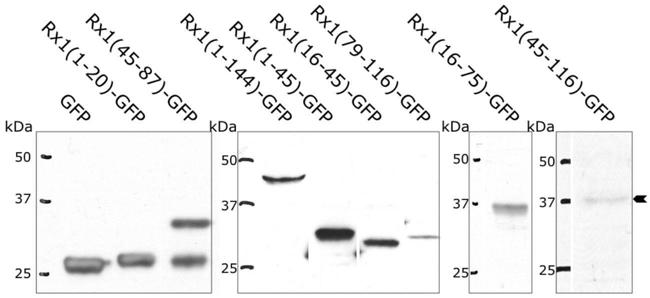


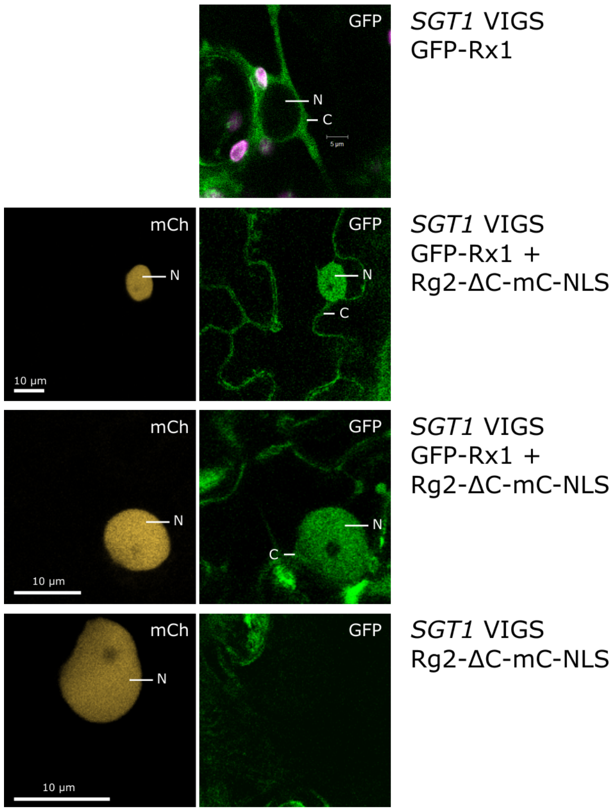
Supplemental Figure 1.
Activation of endogenous promoter expressed Rx1 (pRXI:Rx1) by the avirulent PVX CP (CP106) and a fluorescent protein fusion thereof (CFP-CP106). Virulent CP constructs (CP105 and CFP-CP105) were expressed as controls. The image was taken 48 hpi.



Supplemental Figure 2.
Rx1 mediated cell death is suppressed in *SGT1*-silenced *Nicotiana benthamiana*. Transient expression of CFP-CP106 and YFP-Rx1 in empty vector (EV) VIGS plants and *SGT1* VIGS plants. Coexpression of CFP-CP106 and YFP-Rx1 leads to a cell death response in EV VIGS plants, but not in *SGT1*-silenced plants. CFP-CP106 and YFP-Rx1 agroinfiltration 21 days after TRV infection. Images taken 6 days after agroinfiltration.



Supplemental Figure 3.
Anti-GFP immunoblot of the GFP-fused CC fragments. Expression via agroinfiltration assay in leaves of *N. benthamiana*. Proteins of the expected size were detected with an anti-GFP antibody and free GFP (27 kDa) was used as a control. Only for Rx1(45-89)-GFP, an additional band was observed.



Supplemental Figure 4.
Relocalization of GFP-Rx1 in *SGT1*-silenced cells under influence of an NLS-fused RanGAP2 WPP construct (Rg2-ΔC-mC-NLS). The top panel shows the mostly cytoplasmic localization of GFP-Rx1 in *SGT1*-silenced plants. The coexpressed RanGAP2 WPP domain is visualized via an red fluorescent protein (mCherry) fusion (left panels). The WPP fragment localizes almost exclusively to the nucleus due to the attached nuclear localization signal. The lower right panel shows that in the absence of GFP-Rx1 no GFP signal can be seen in the nucleus; there is no discernable bleed through of the mCherry signal in the GFP detection channel. Nuclei (N) and cytoplasm (C) are indicated.

Supplemental Table 1.
Nucleotide sequences of the oligonucleotides used in plasmid construction.

Name	Nucleotide sequence (5' – 3')
5GpRxbn	TTTTTGGATCCATGGCTTATGCTGCTGTTACTTCCC
Rxrev	GATAGCGTCGACCACCTTAACTACTCGCTGCA
RxLSFor	TACGACCATGGATGGCTTATGCTGCTGTTAC
5UTRkp	TGGTACCTTCTGCAGCGAGTAGTTAAGGTGTTCTGAGGAC
3UTRrev	CTTAATTAACCCGGGAGATTGAGGACTCCCAAGAAAGG
bRxAdeIf	GAGATTCACTATGTGCATCACCCAC
RxbnREV	AGCATAAGCCATGGATCCAAAAAATAGAAATATCTCT
5CFPsbn	GTCGACGGATCCATGGTGAGCAAGGGCGAGGAGCTGTTC
3CFPsrk	AGGTACCTTAGCTCATGACTGACTTGTAGAGCTCGTCCATGCCGAGAG
CBPY1	CACACCGTATGCGGCCGCTGCAGTCGACGGTGATGTGGT
CBPY2	CATGACCACATCACCGTCGACTGCAGCGGCCGCATACGGTGTGCATG
SV1	CATGGGCCCTAAAAAGAAGCGTAAGGTTGAGGACCCTGGATCCGTGAATTCTG
SV2	CTAGCAGAATTCACGGATCCAGGGTCCTCAACCTTACGCTTCTTTTTAGGGCC
SVmut1	CATGGGCCCTAAAAACAAGCGTAAGGTTGAGGACCCTGGATCCGTGAATTCTG
SVmut2	CTAGCAGAATTCACGGATCCAGGGTCCTCAACCTTACGCTTGTTTTTAGGGCC
PK1	CTACAAGGCCATGGGTAACGAGCTTGCATTAAAGCTCGCTGGTCTTGATATTAACAAGGGATCCGGT G
PK2	CTAGCACCGGATCCCTTGTTAATATCAAGACCAGCGAGCTTTAATGCAAGCTCGTTACCCATGGCC TTGTAGAGCT
linker 12for	AGCTCTACAAGGGCGGCGGAAGTGGAGGCGGATCCGGGGGAGGCAGCATG
linker12rev	CTGCCTCCCCCGGATCCGCCTCCACTTCCGCCGCCCTTGTAG
5RxexFor	CAAAGAGATTGATTTCGGGGG
3Rxnot	GCTTCTTGCCGCAATAATGTCGAGGGTGCGGCCGCTTAAGGTACCAG
3LysRrev	AGTTGTTCTCCCGATGCCTCCCATCCC
5LysRfor	GGAGGCATCGGGAGAACAACTTTGGCTACA
3NBSeRev	TGGTACCTTAAGAATTCATGTTTCGAGCTTCCCTCAAACAG
For-LRRrx-1	ATGAATTTTGTGAATGTTATCAGAGG
Rev-LRRrx-1	CTCGACATTATTGCGGCAAGAAGC
NBSerev	TGGTACCTTAAGAATTCATGTTTCGAGCTTCCCTCAAACAG
Ctyfp1	AATTCTGGAGGTTCTGGTGGCGGAGGCTCAGGCGGTGGTGGAAG
Ctyfp2	CATGCTTCCACCACCGCCTGAGCCTCCGCCACCAGAACCTCCAG
5NBSf	GACCATGGTTGGCCGTGAAAATGAATTTGAG
ApaLRev	GGTACCTTACTGCATGGATTGTGCACATGAAT
AN1	TGCACAATCCATGCAGGCGGCCGCTTAAGGTAC
AN2	CTTAAGCGGCCGCCTGCATGGATTG
3CCnot	GTGGTACCTTAAGCGGCCGCACCAACCATTATATTCTCGGGCTGC
Rev-BamHI-AC	AGGATCCCATTATATTGCAG
Rev-BamHI-B	AGGATCCAGTAAGTTCCATTG
For-nco-CD	TACCATGGAACTTACTGGATGTG
For-nco-EG	TACCATGGGCGATCATGAGG
Rev-BamHI-ED1	AGGATCCCCTGCTTCTTTCCTC
For-nco-F	TACCATGGCACAGAATTTGGAGG
Rev-BamHI-GF	AGGATCCGCTGTCCGATGTTGC
5UK3cp	TCCATGGGCGGTGGAGTCATGAGCGCACCAGCTAGCACAACACAGCC
3UK3cp	AGGTACCTGCGGTTATGGTGGTGGTAGAGTGACAACAGC
5HBcp	TCCATGGGCGGTGGAGTCATGACTACGCCAGCCAACACCACTC
3HBcp	AGGTACCTGCGGTTATGGTGGGGGTAGTGAGATAACAGC
mCh1	AGTCGACGGATCCATGGTGAGCAAGGGCGAGG
mCh2	TCCCGGGTTACTCGAGCTTGTACAGCTCGTCCATGC
NLST1	TCGAGGGGCCTAAAAAGAAGCGTAAGGTTGAGGACCCTGGATAATCTAGAC
NLST2	CCGGGTCTAGATTATCCAGGGTCCTCAACCTTACGCTTCTTTTTAGGCCCC
T1	CTAGAGGTCGACTCTCGAGTGCACGGATCCT
T2	TCGAAGGATCCGTGCACTCGAGAGTCGACCT