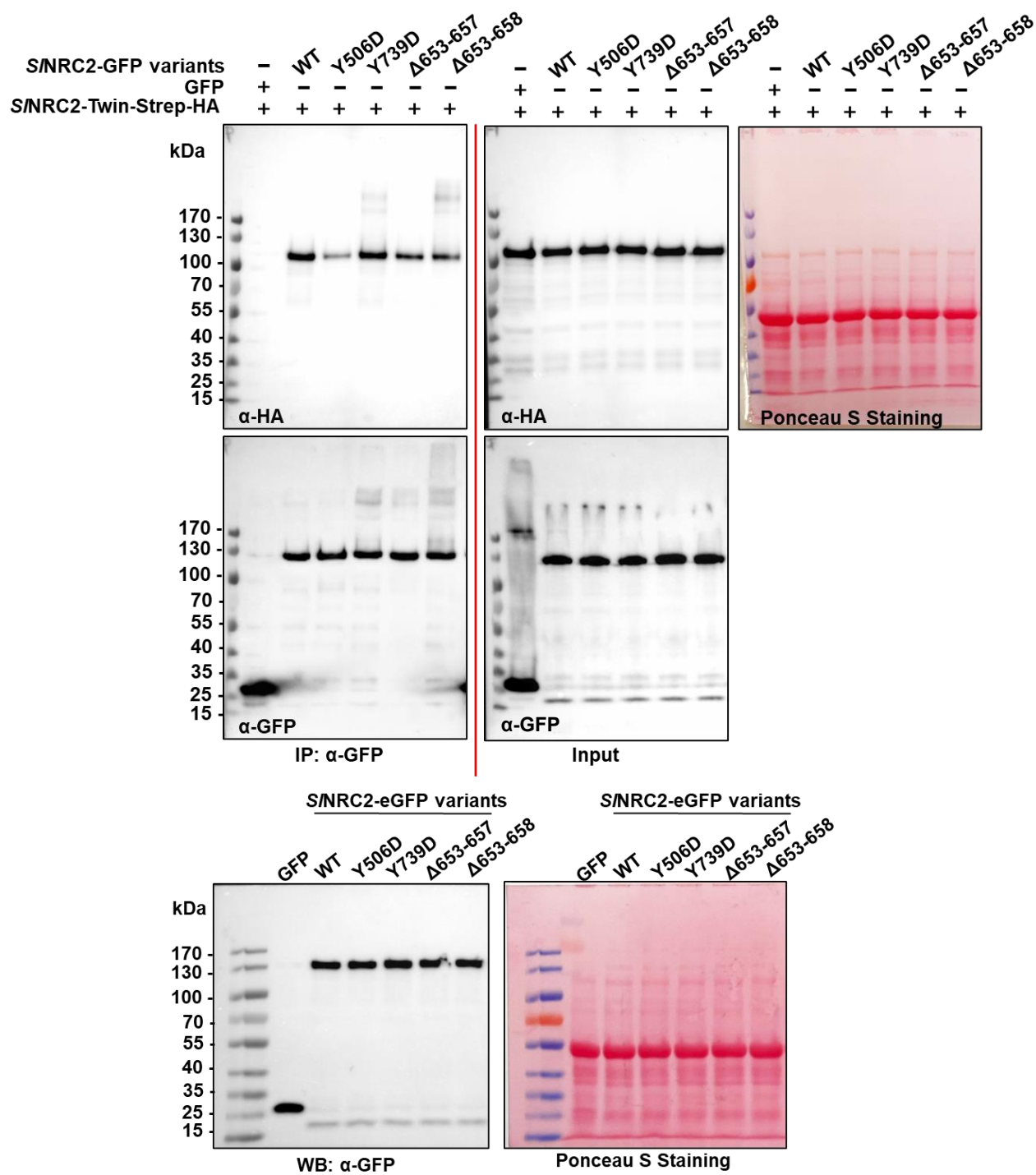

Supplementary information

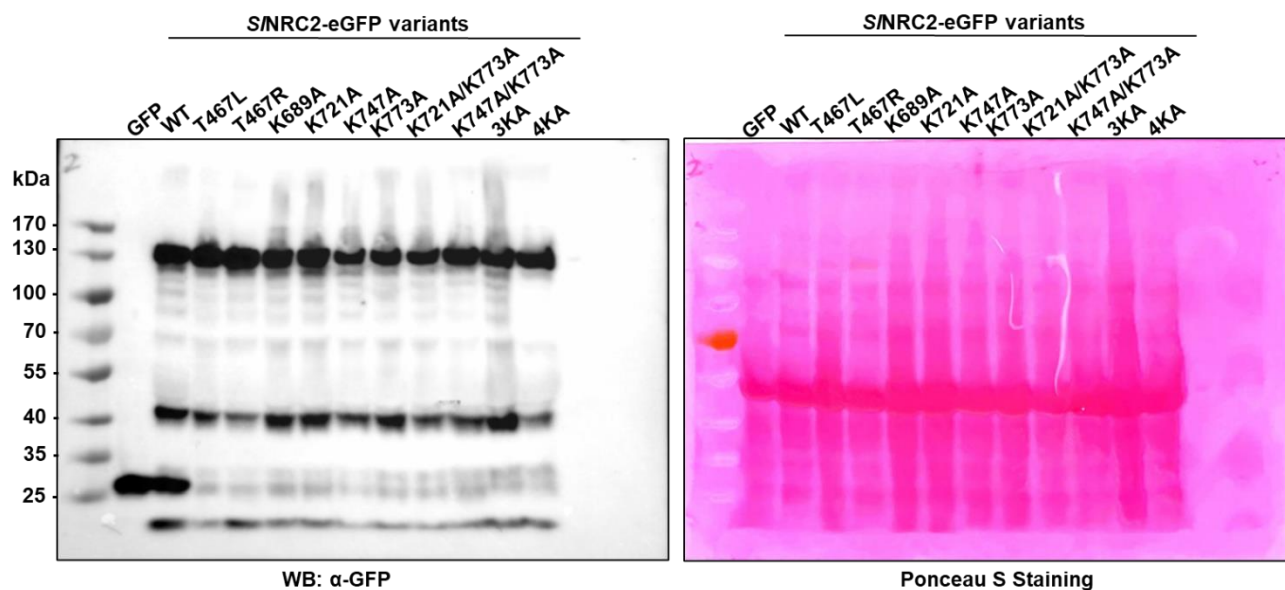
Oligomerization-mediated autoinhibition and cofactor binding of a plant NLR

In the format provided by the
authors and unedited

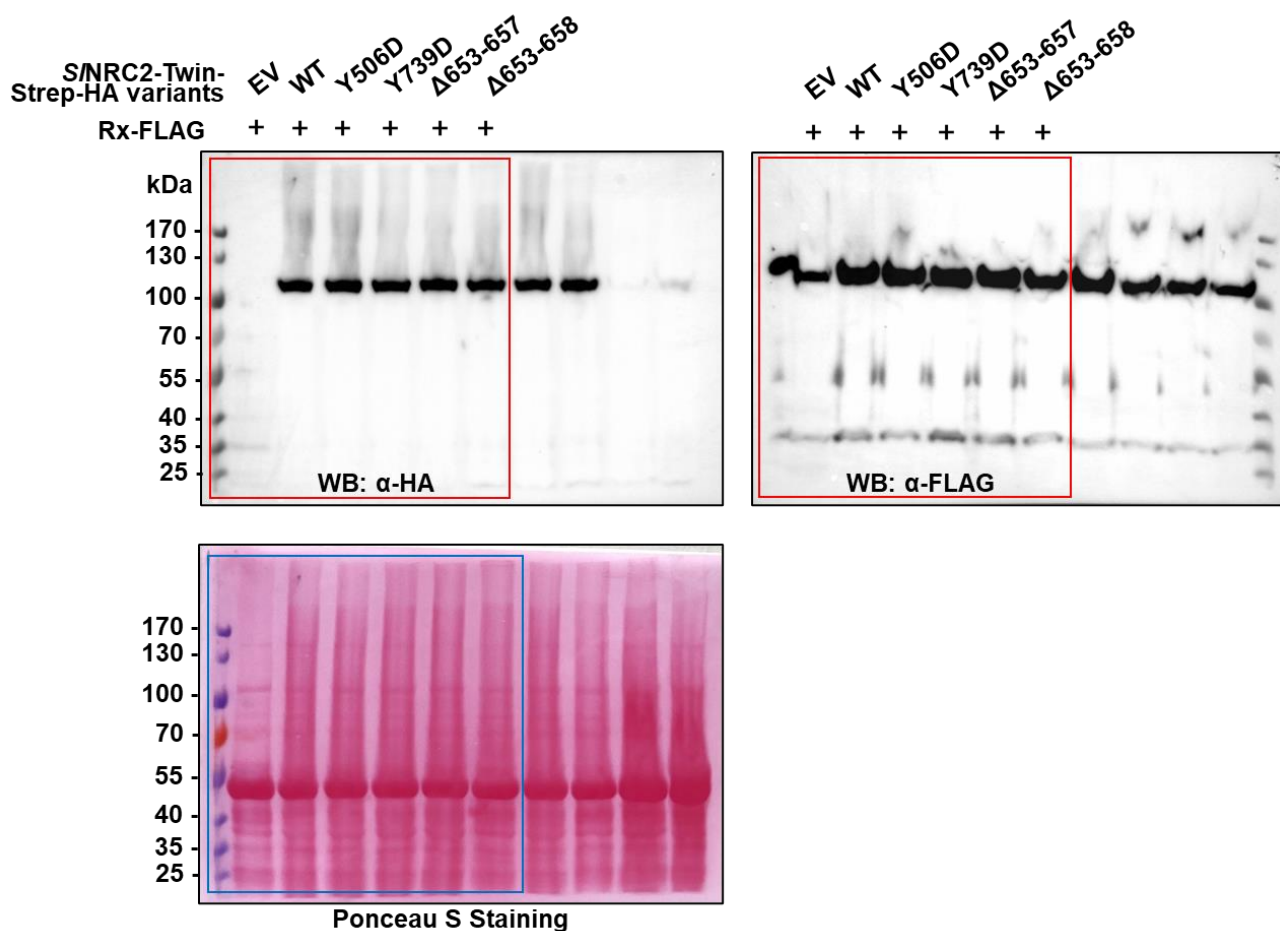
Supplementary Figure 1: uncropped blots, gels images and pictures of tobacco leaves for HR phenotypes



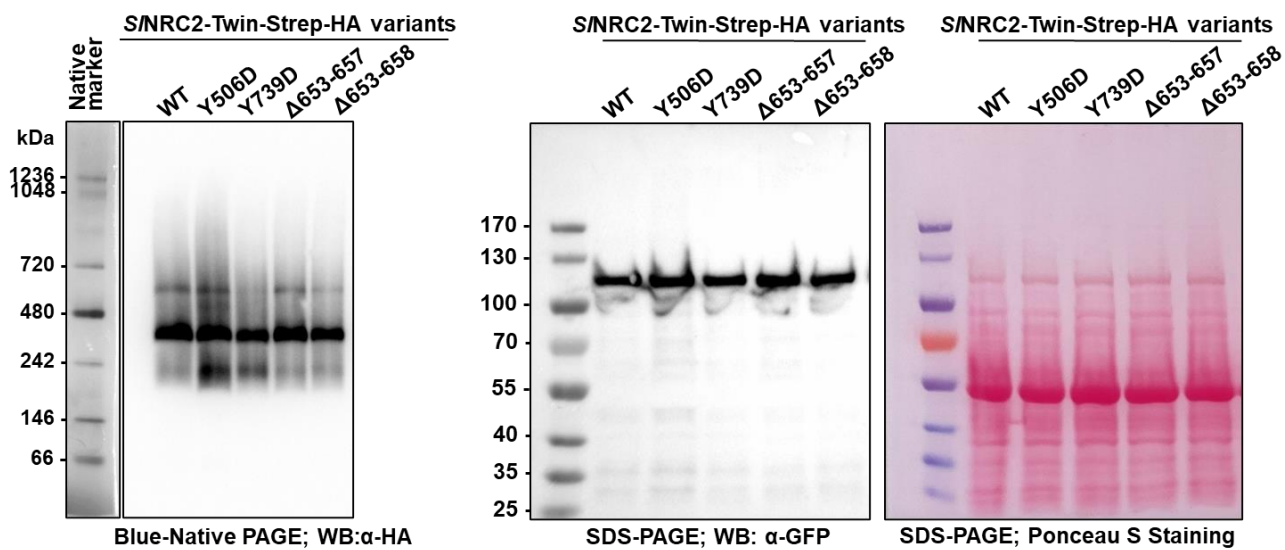
Uncropped western blot pictures corresponding to Fig. 3c, d.



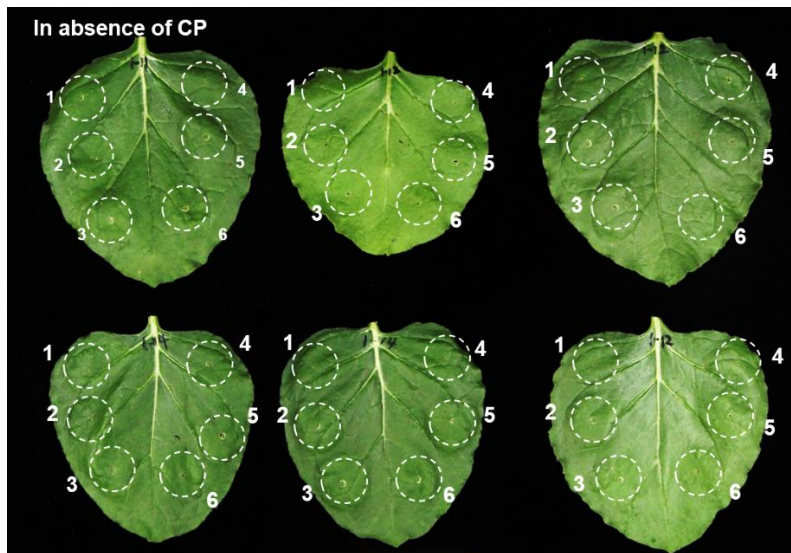
Uncropped western blot corresponding to **Fig. 5c**.



Uncropped western blot for the PVX assay corresponding to **Extended Data Fig. 5**. The areas marked by red and blue rectangles were used for this work.



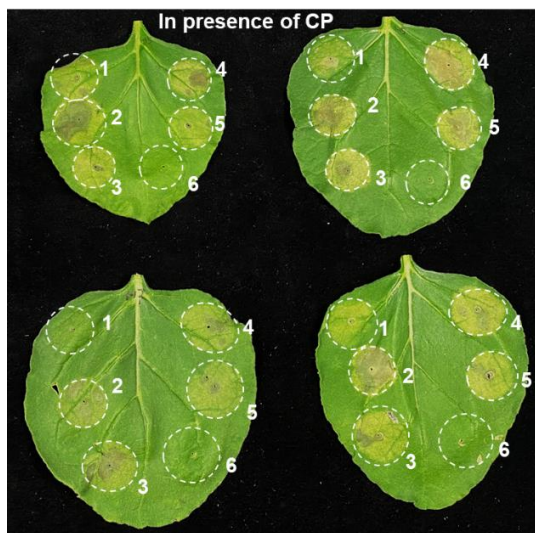
Supplemental Information 6. Uncropped western blot pictures for Blue-Native PAGE assay corresponding to **Extended Data Fig. 5**. For Ponceau S staining membrane, the same samples were run in a parallel gel.



Rx-HA StrepII +
S/NRC2-eGFP variants

1. WT	4. $\Delta 653-657$
2. Y506D	5. $\Delta 653-658$
3. Y739D	6. EV(GFP)

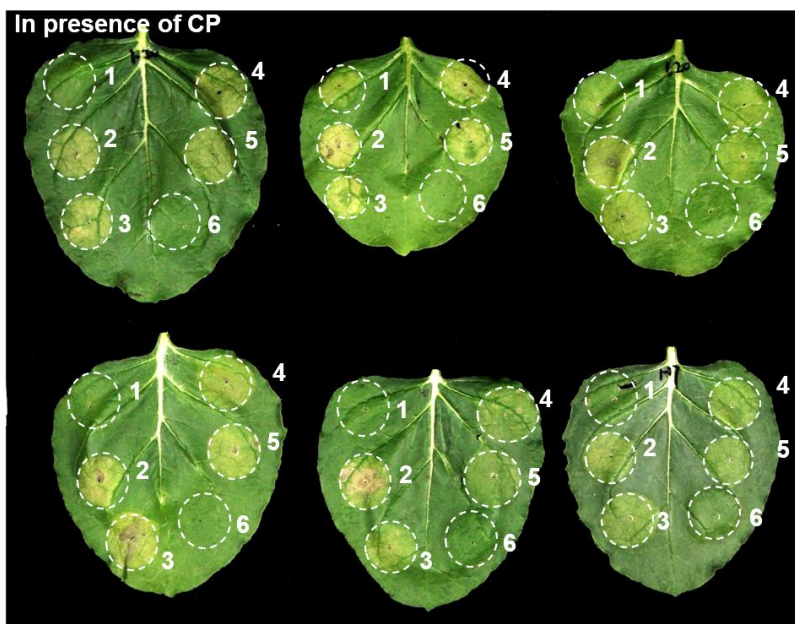
In *nrc2/3/4*



Rx-HA-StrepII + CP-FLAG
+ S/NRC2-eGFP variants

1. WT	4. $\Delta 653-657$
2. Y506D	5. $\Delta 653-658$
3. Y739D	6. EV(GFP)

In *nrc2/3/4*

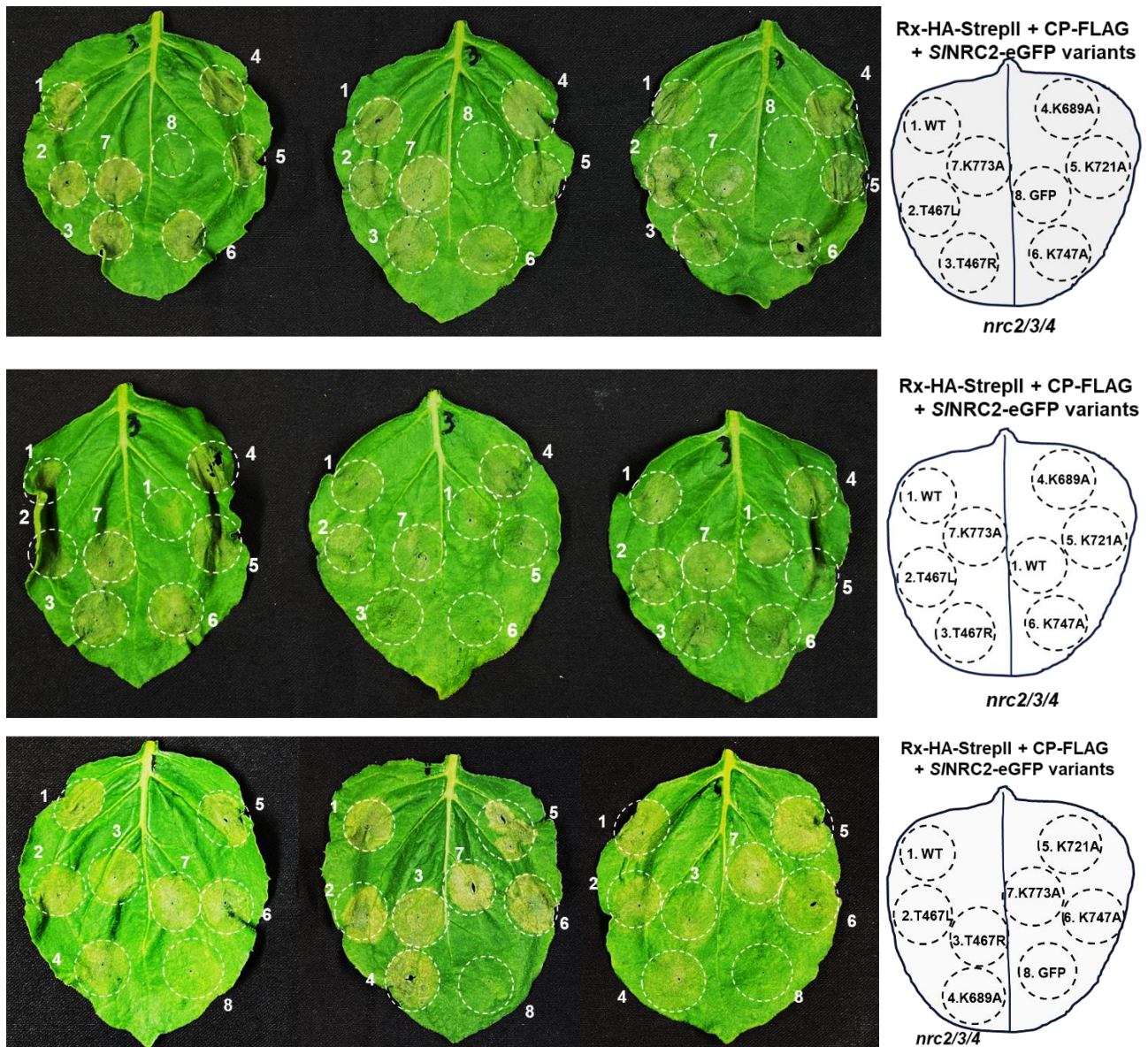


Rx-HA-StrepII + CP-FLAG
+ S/NRC2-eGFP variants

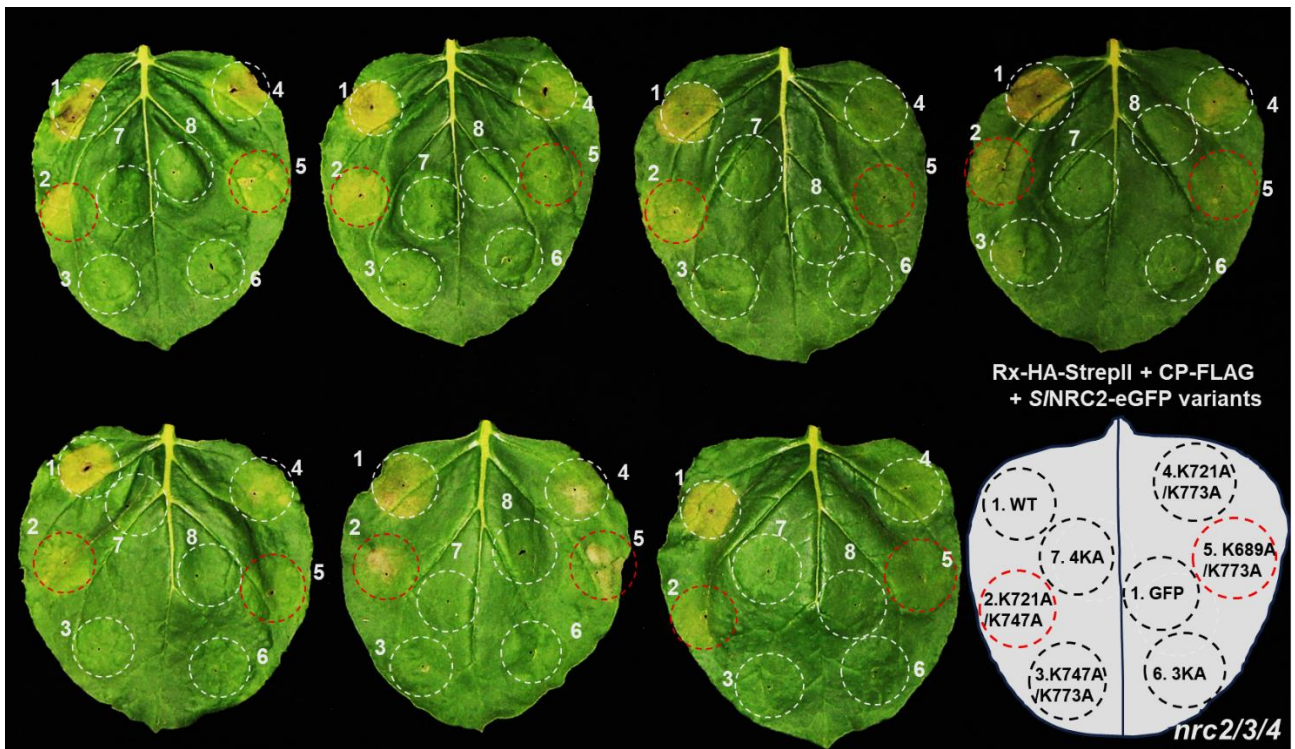
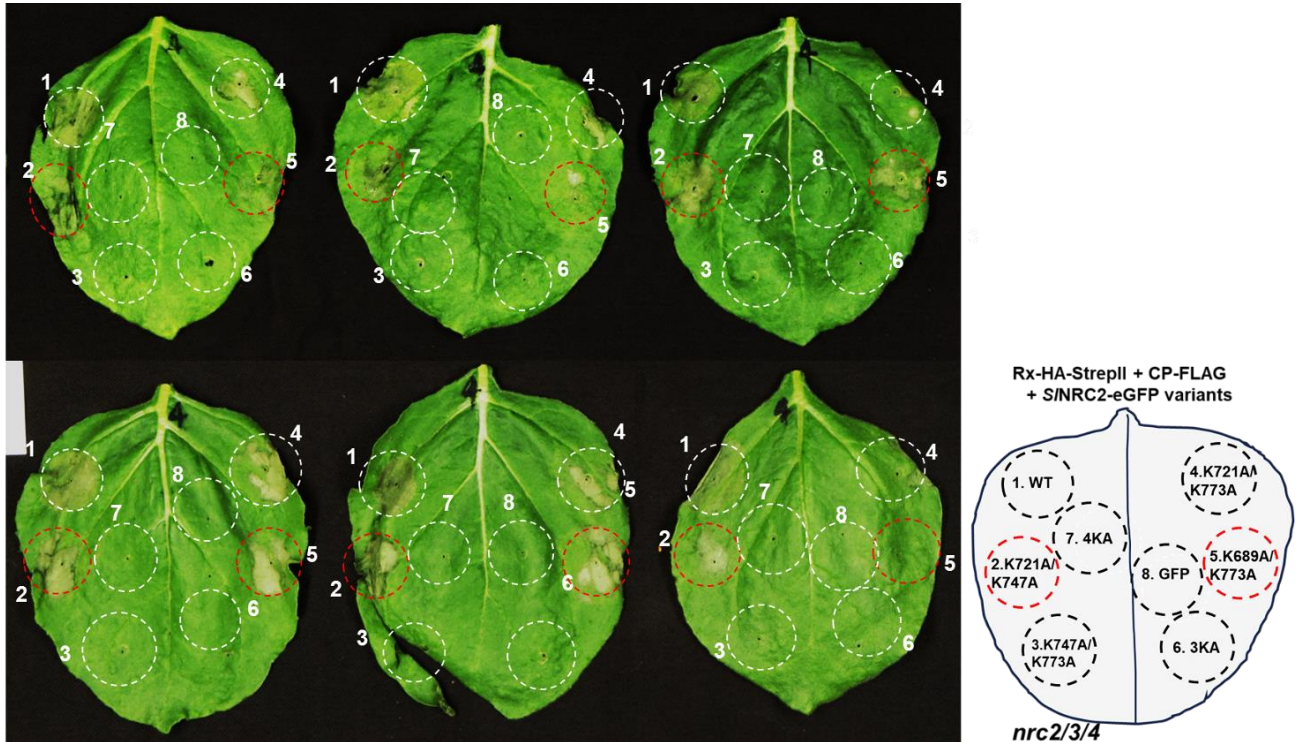
1. WT	4. $\Delta 653-657$
2. Y506D	5. $\Delta 653-658$
3. Y739D	6. EV(GFP)

In *nrc2/3/4*

Rx-triggered cell death phenotypes that mediated by S/NRC2 and S/NRC2 oligomer-disrupting mutations in *Nicotiana benthamiana*. Corresponding to **Fig. 3d**



Rx-triggered hypersensitive response phenotypes of *SNRC2* and *SNRC2* IP binding mutants in *Nicotiana benthamiana*. Corresponding to **Fig. 5c**. (To be continued)



Rx-triggered hypersensitive response phenotypes of *SNRC2* and *SNRC2* IP binding mutants in *Nicotiana benthamiana*. Corresponding to **Fig. 5c**. The cell death phenotypes of red circle labeled mutants are not presented in this work.

Supplementary Table S1 | Nucleotides used for constructions, mutagenesis, CRISPR editing and RT-qPCR.

Primer name	Sequence
<i>SINRC2</i> -attB-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGGCTAACGTGGCCGTGGAG
<i>SINRC2</i> -attB-R	GGGGACCACTTTGTACAAGAAAGCTGGGTCTGAGGTCGGGGGGGAAAATGG
<i>Rx</i> -attB-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGGCTTATGCTGCTGTTAC
<i>Rx</i> -attB-R	GGGGACCACTTTGTACAAGAAAGCTGGGTCTCTGACATTATTGCGGCAAG
<i>CP</i> -attB-F	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGACTACACCAGCCAACAC
<i>CP</i> -attB-R	GGGGACCACTTTGTACAAGAAAGCTGGGTCTGGGGGTAGTGAAACAACCTG
<i>SINRC2</i> _Y506D_R	CTGCTCGCTACCGAGTTTGATC
<i>SINRC2</i> _Y506D_F	gACTTCCCCGGTAAACGTGAG
<i>SINRC2</i> _Y739D_R	AGCGGGGGGGAGGCGCAGCT
<i>SINRC2</i> _Y739D_F	gACATCTTCCCTACTAAGCTC
<i>SINRC2</i> _1956_R	AGCCACGGGGACGGGCAGCT
<i>SINRC2</i> _Δ653-657_F	GTGACTCTGGTGAACCAATC
<i>SINRC2</i> _Δ653-658_F	ACTCTGGTGAACCAATCTCTG
<i>SINRC2</i> _T467L_R	ACGTTCCATGACCATCACCAG
<i>SINRC2</i> _T467R_R	AggTCCGACGGCCAGATCAAAAC
<i>SINRC2</i> _T467L/R_F	ctCTCCGACGGCCAGATCAAAAC
<i>SINRC2</i> _K689A_R	CTTGAGGTTGGGGGTGCGGG
<i>SINRC2</i> _K689A_F	gcGCTGGGCATCCGTGGC
<i>SINRC2</i> _K721A_R	CAGATTCTCCAGATACTCCAGAC
<i>SINRC2</i> _K721A_F	gcGCTCATCAACGACAGCTC
<i>SINRC2</i> _K747A_R	GCGGAGCTTAGTAGGGAAGATG
<i>SINRC2</i> _K747A_F	gcACTCACTCTGCTGGATACTTG
<i>SINRC2</i> _K773A_R	CAGCACCTCCAGATGTTCCAG
<i>SINRC2</i> _K773A_F	gcGATGAAGGAGAACGGTTTCAG
<i>sgNRC2</i> _1F	attgAACGATGTCCACAAAGAAT
<i>sgNRC2</i> _1R	aaacATTCTTTGTGGACATCGTT
<i>sgNRC2</i> _2F	attgCTTCACAAGGACAAAGGGGT
<i>sgNRC2</i> _2R	aaacACCCCTTTGTCCTTGTGAAG
<i>sgNRC3</i> _1F	attgTCAAACAAGCAGCTAAATCA
<i>sgNRC3</i> _1R	aaacTGATTTAGCTGCTTGTTTGA
<i>sgNRC3</i> _2F	attgAATCACTAGTAAAGAAGATA
<i>sgNRC3</i> _2R	aaacTATCTTCTTTACTAGTGATT
<i>sgNRC4</i> _1F	attgAAAAACGGTACATACCGCAG
<i>sgNRC4</i> _1R	aaacCTGCGGTATGTACCGTTTTT
<i>sgNRC4</i> _2F	attgAGTCAGGAATCTTGACGCTG
<i>sgNRC4</i> _2R	aaacCAGCTGCAAGATTCCTGACT
NbNRC2a-F	AGTCAACACCATCCATTTGCAC
NbNRC2a-R	TTGAAGGGCCTGAAGGTCAAG
NbNRC2b-F	AACACCACTCATTTGCGCTT
NbNRC2b-R	TCGACACCTTTGGCAGATTGA
NbNRC3-F	TATTGGTTGGCACTTGGCAG
NbNRC3-R	TCAGCAACCCCTTTTGCTCT
NbNRC4a-F	CCCACCTTTTATTCTTGAGGAA
NbNRC4b-F	CCACCTTATGTTCTTAGAGAG
NbNRC4-R	AACAGACCGAACCGAACCAT
PVX_CP-F	TTCGACTTCTTCAATGGAGTC
PVX_CP-R	TCCAGTGATACGACCTCG
Nb_F-box-F	GGCACTCACAACGTCTATTTTC
Nb_F-box-R	ACCTGGGAGGCATCCTGCTTAT