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Supplementary information

Structural basis of NPR1 in activating plant immunity

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TITLE

Structural Basis of NPR1 in Activating Plant Immunity

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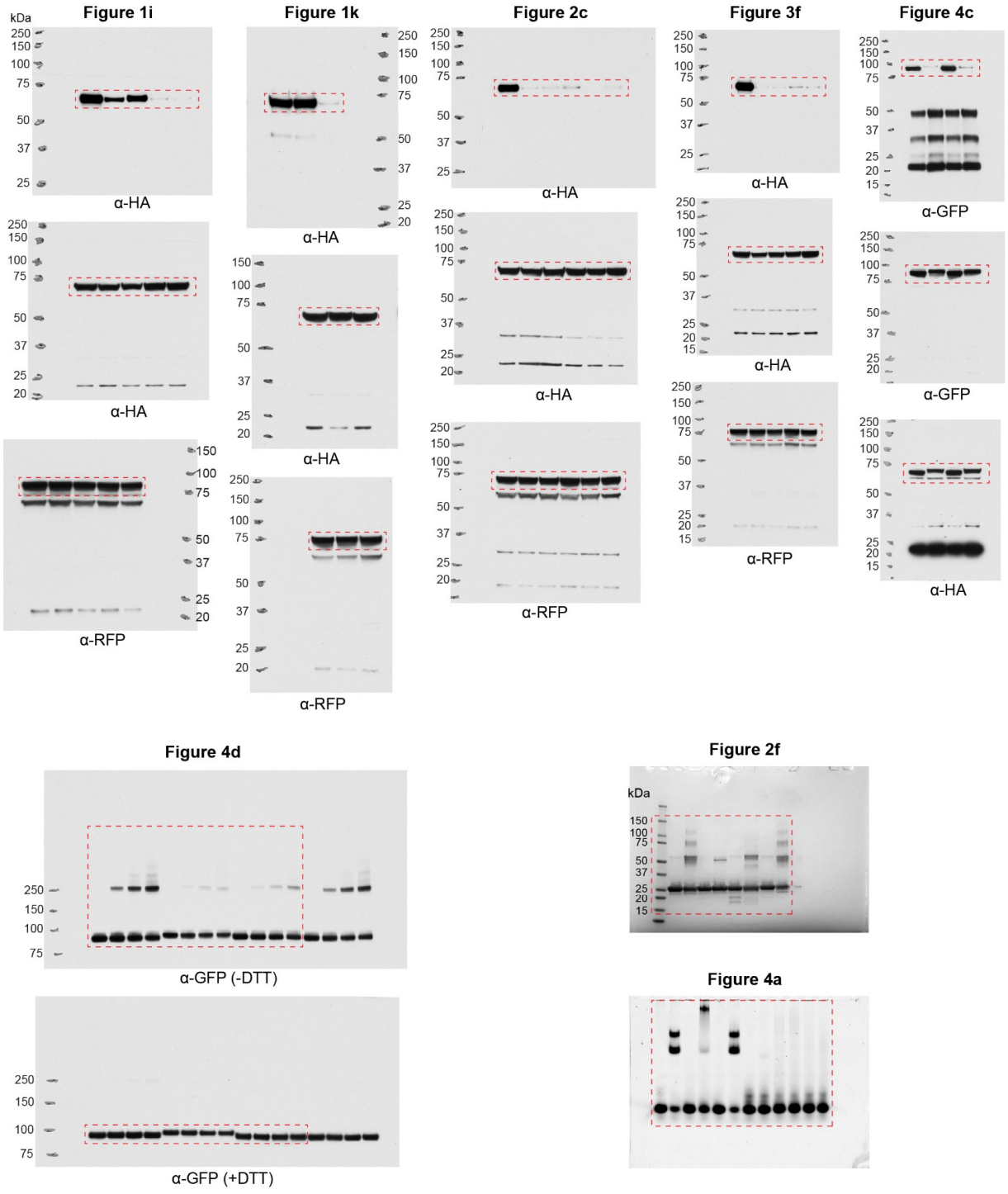
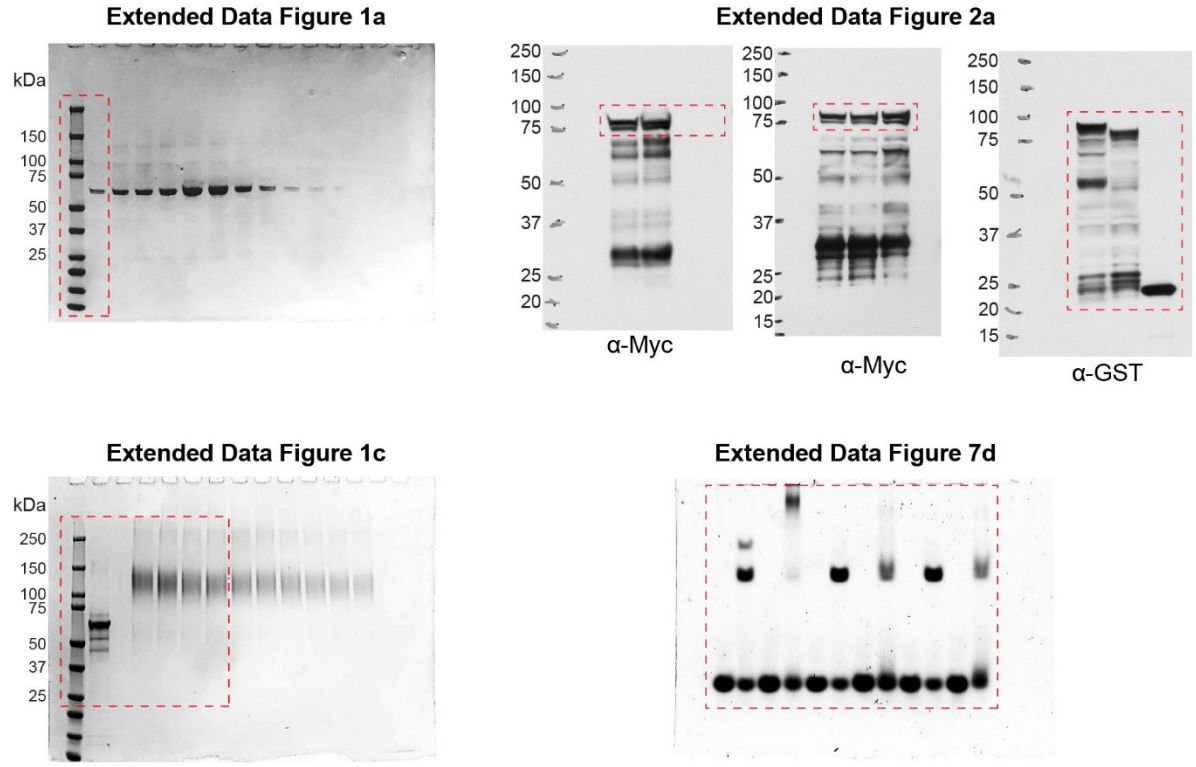
SUPPLEMENTARY INFORMATION

Table of Content:



SI Figure 1 | Uncropped gel images or immunoblots used in main figures.



SI Figure 2 | Uncropped gel images or immunoblots used in extended data figures.

SI Table 1 | List of DNA primers used in the study

Name	Sequence (5'-3')
AtNPR1 site-directed mutagenesis primers	
dim mutation	
L49D-F	ACCTGATGTATCTGCTCTGCAAGATCTCTCCAACAGCTTCGAATCC
L49D-R	GGATTCGAAGCTGTTGGAGAGATCTTGCAGAGCAGATACATCAGGT
F53D/V56D-F	TGCTCTCCAACAGCGACGAATCCGACTTTGACTCGCCGG
F53D/V56D-R	CCGGCGAGTCAAAGTCGGATTCGTCGCTGTTGGAGAGCA
V83K-F	GAAGTTTCTTTCCACCGGTGCAAGTTGTCAGCGAGAAGCTCTTTC
V83K-R	GAAAGAGCTTCTCGCTGACAACTTGCACCGGTGGAAAGAAACTTC
Deletion of BHB	
N1-F-B1	GGGGACAAGTTTGTACAAAAAAGCAGGCTTAATGGACACCACCATTGATGGATTC
N1-F772	GACGTTGTAGACAAAGTTGTTATATTGGAGGTACCTAAAGTAAAGAAACATG
N1-R597	CTTTCTTTACTTTAGGTACCTCCAATATAACAACTTTGTCTACAACGTC
N1-R-B2	GGGGACCACTTTGTACAAGAAAGCTGGGTCCCGACGACGATGAGAGAG
Other point mutations	
C150A-F	GCCGCCTAAAGGAGTTTCTGAAGCTGCAGACGAGAAT
C150A-R	ATTCTCGTCTGCAGCTTCAGAAACTCCTTTAGGCGGC
C150Y-F	CCGCCGCCTAAAGGAGTTTCTGAATATGCAGACGAGAATT
C150Y-R	AATTCTCGTCTGCATATTCAGAAACTCCTTTAGGCGGCGG
C155A-F	TCTGAATGCGCAGACGAGAATGCCTGCCACGTGGC
C155A-R	GCCACGTGGCAGGCATTCTCGTCTGCGCATTCAGA
C155Y-F	GTTTCTGAATGCGCAGACGAGAATTATTGCCACGTGGCTT
C155Y-R	AAGCCACGTGGCAATAATTCTCGTCTGCGCATTCAGAAAC
H157A-F	GCCGGCAAGCCACGGCGCAGCAATTCTCGT
H157A-R	ACGAGAATTGCTGCGCCGTGGCTTGCCGGC
C160A-F	ATTGCTGCCACGTGGCTGCCCGGCCGGC
C160A-R	GCCGGCCGGGCAGCCACGTGGCAGCAAT
A151P/D152R-F	TAAAGGAGTTTCTGAATGCCCACGCGAGAATTGCTGCCACGTG
A151P/D152R-R	CACGTGGCAGCAATTCTCGCGTGGGCATTCAGAAACTCCTTTA
L281D-F	GCACTTGACTCGGATGATATTGAGGATGTCAAGTTGCTTTTGAAAGAGGAT
L281D-R	ATCCTCTTTCAAAAGCAACTTGACATCCTCAATATCATCCGAGTCAAGTGC
L284D-F	CTCGGATGATATTGAGTTAGTCAAGGATCTTTTGAAAGAGGATCACACCAATC
L284D-R	GATTGGTGTGATCCTCTTTCAAAAGATCCTTGACTAACTCAATATCATCCGAG
L281-284D-F	CATAAGGCACTTGACTCGGATGATATTGAGGATGTCAAGGATCTTTTGAAAG AGGATCACACCAATCTAGAT
L281-284D-R	ATCTAGATTGGTGTGATCCTCTTTCAAAAGATCCTTGACATCCTCAATATCAT CCGAGTCAAGTGCCTTATG
L346D-F	CGATGCGGAAGGAGCCACAATTGATAGATTCTCTATTGGAAAAAGGTG
L346D-R	CACCTTTTTCCAATAGAGAATCTATCAATTGTGGCTCCTTCCGCATCG
L393D-F	GCAAGCATTCTCTCAAAGGCCGAGATTGTGTAGAAATACTAGAGCAA
L393D-R	TTGCTCTAGTATTTCTACACAATCTCGGCCTTTGAGAGAATGCTTGC

I397D-F	CAAAGGCCGACTATGTGTAGAAGATCTAGAGCAAGAAGACAAACGAG
I397D-R	CTCGTTTGTCTTCTTGCTCTAGATCTTCTACACATAGTCGGCCTTTG
Q400C/E401L-F	CAAAGGCCGACTATGTGTAGAAATACTAGAGTGCTTAGACAAAC GAGAACAAATTCCTAGAGATGTT
R506C-F	CGTGGAACTCGGGAAATGCTTCTTCCCGCGCTGT
TGA3-mRFP cloning	
TGA3-F-B1	GGGGACAAGTTTGTACAAAAAAGCAGGCTTAGAGATGATGAGCTCTTCTTCTTC
TGA3-R-B2	GGGGACCACTTTGTACAAGAAAGCTGGGTAAGTGTGTTCTCGTGGACG
qPCR primers	
PR1-F	CTCATACACTCTGGTGGG
PR1-R	TTGGCACATCCGAGTC
WRKY18-QF	TGGACGGTTCTTCGTTTCTCGAC
WRKY18-QR	TCGTAACTCACTTGCGCTCTCG
WRKY38-QF	ACTGCGAAGCAAGAAAGCATGAAC
WRKY38-QR	TGGTGGCCAAAGTAAGTGGTTCG
WRKY62-QF	CAACCAGCTGCTCATCATGGAC
WRKY62-QR	ACTTGGCCAAATCCTCCCTTTCC
UBQ5-F	GACGCTTCATCTCGTCC
UBQ5-R	GTAAACGTAGGTGAGTCCA