
Supplementary information

Pattern-recognition receptors are required for NLR-mediated plant immunity

In the format provided by the
authors and unedited

Supplementary Figure 1. Uncropped images for protein gels.

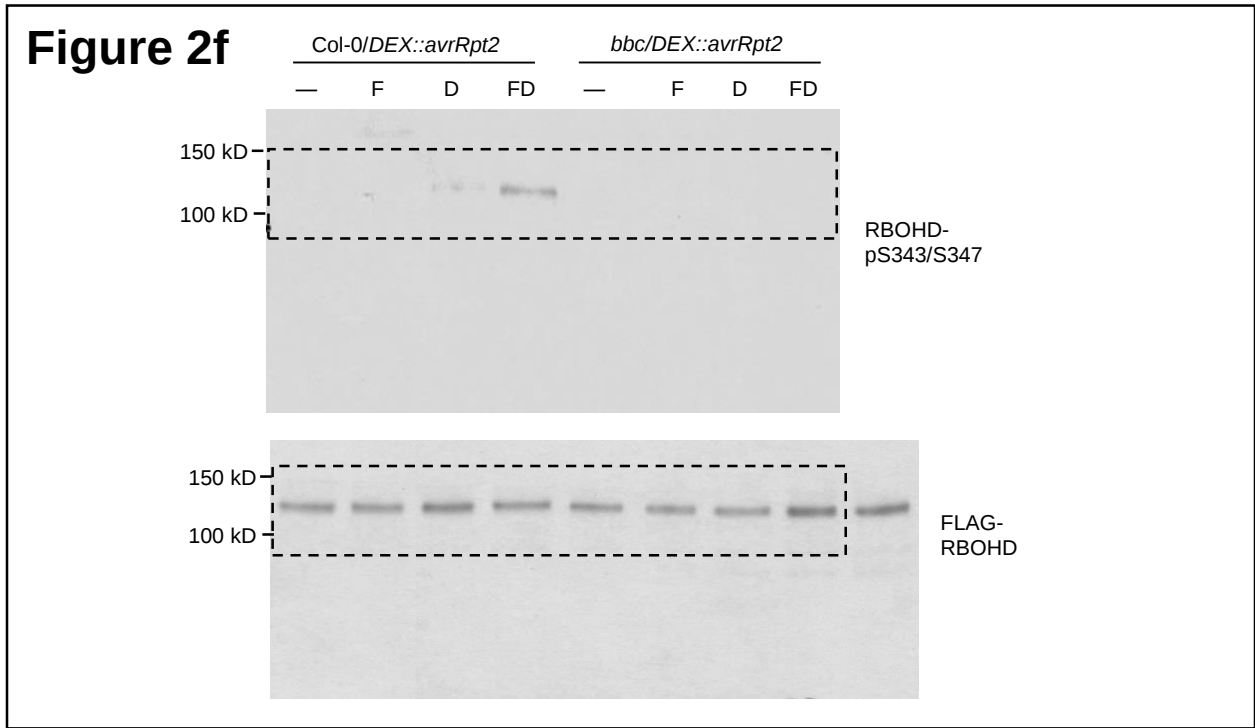
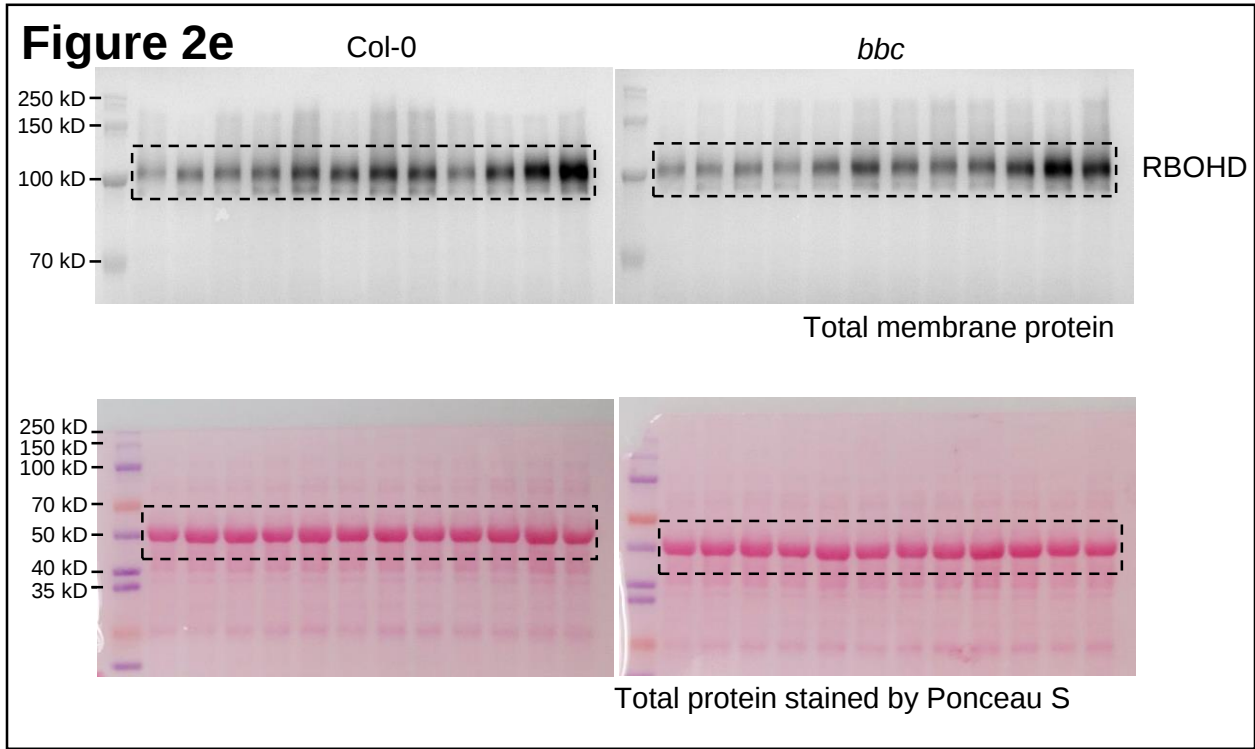


Figure 3a

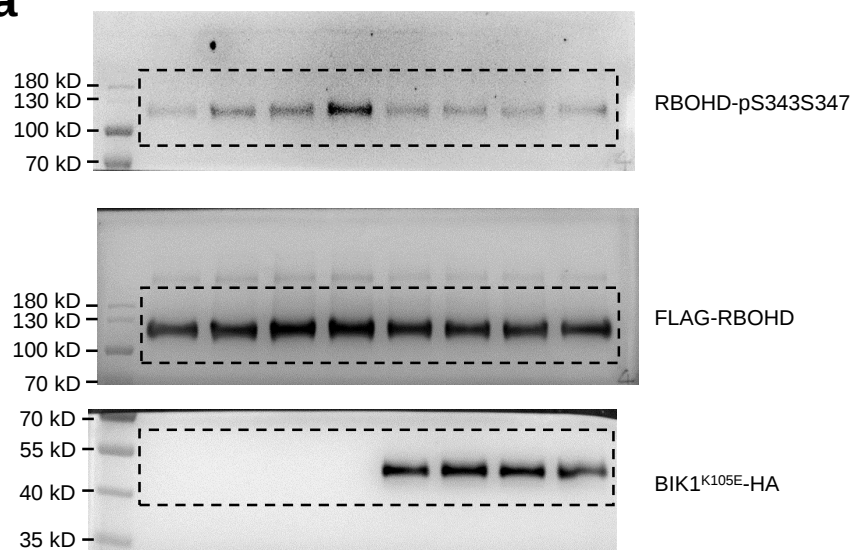


Figure 4d

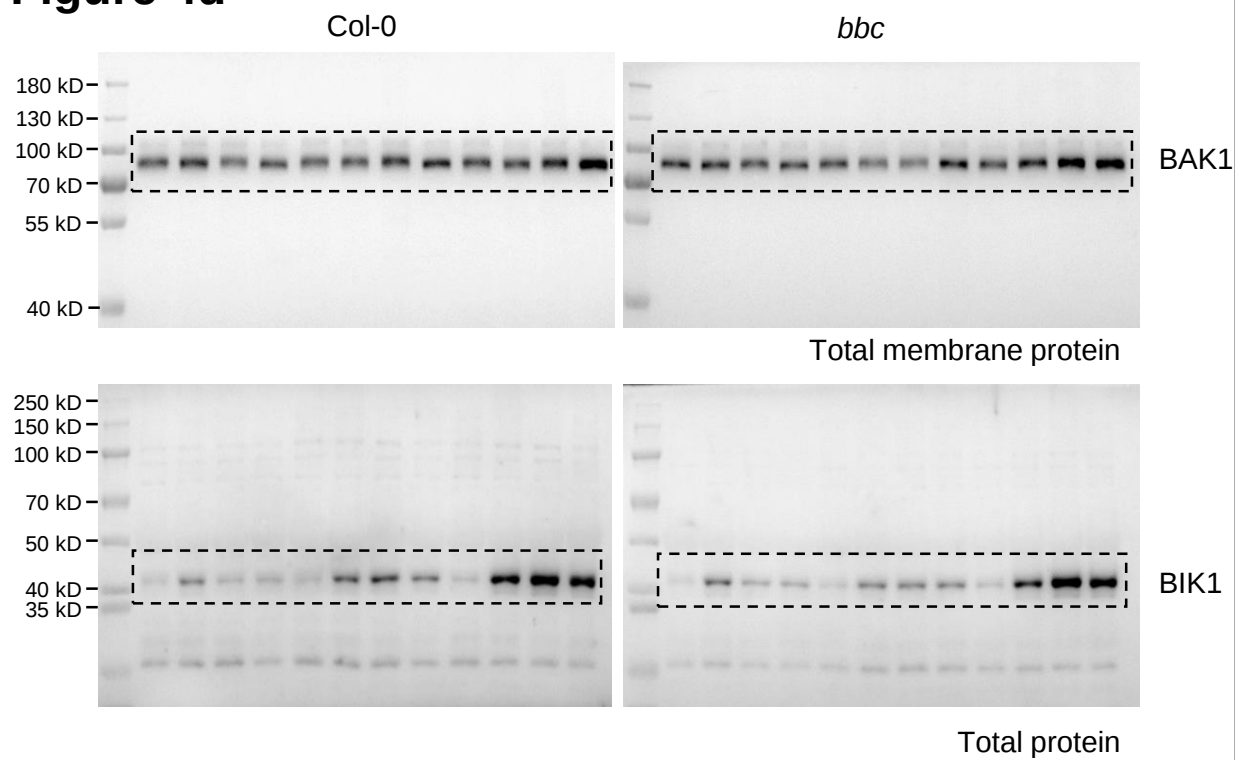
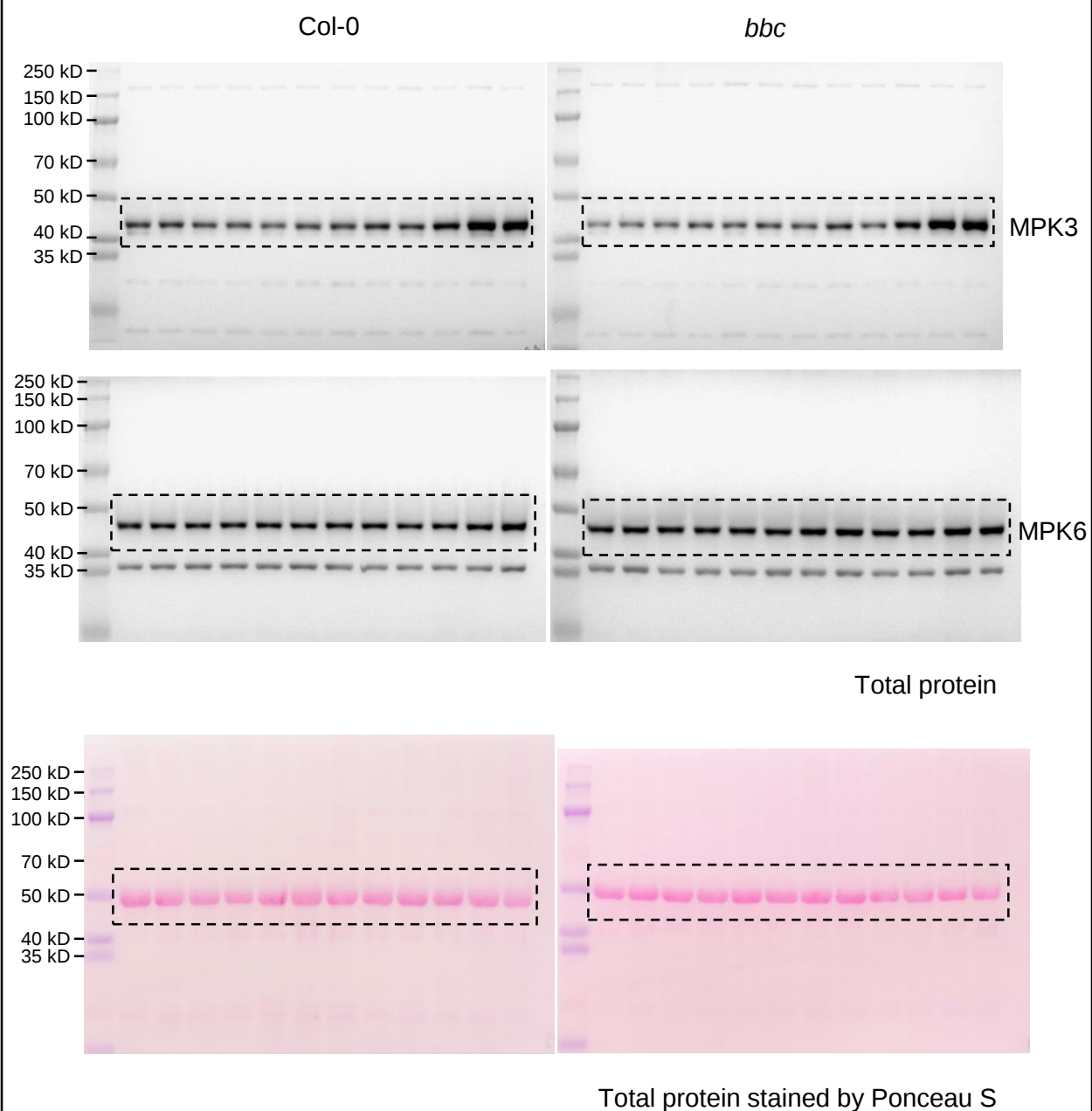
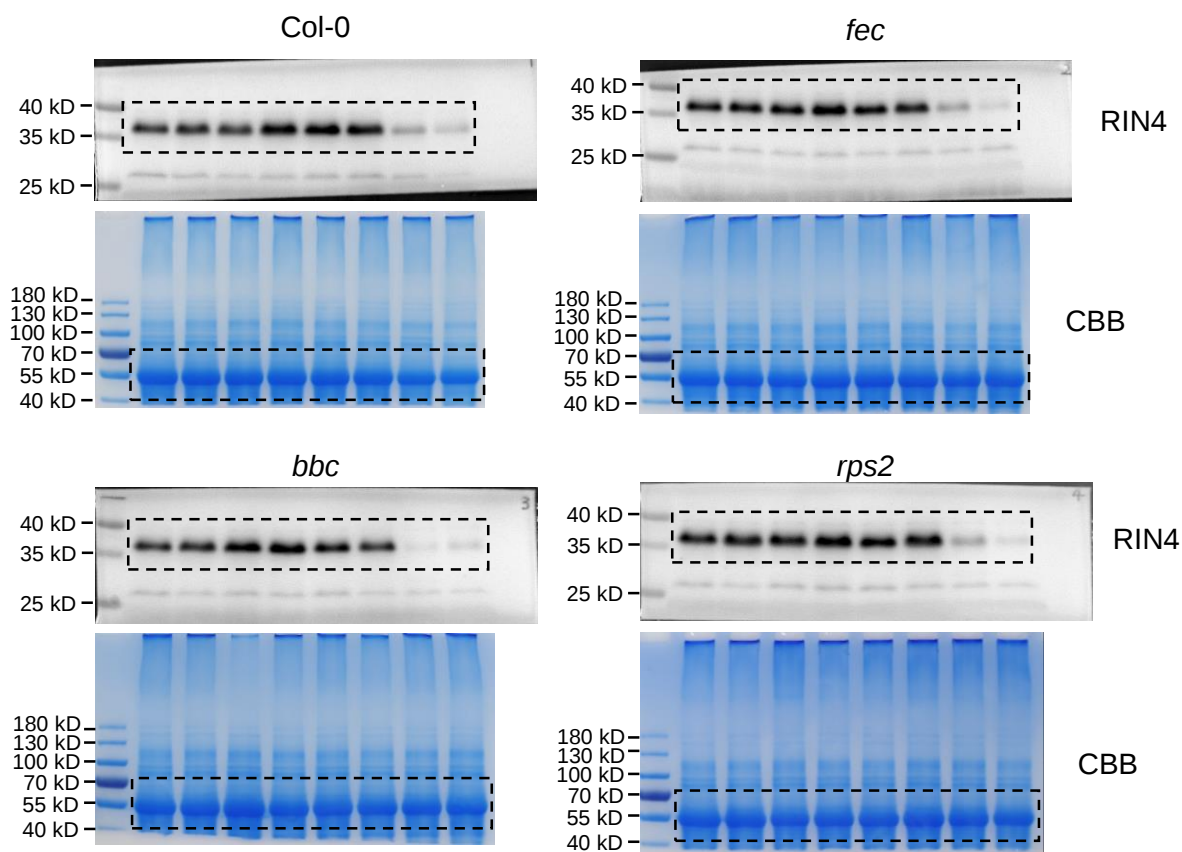


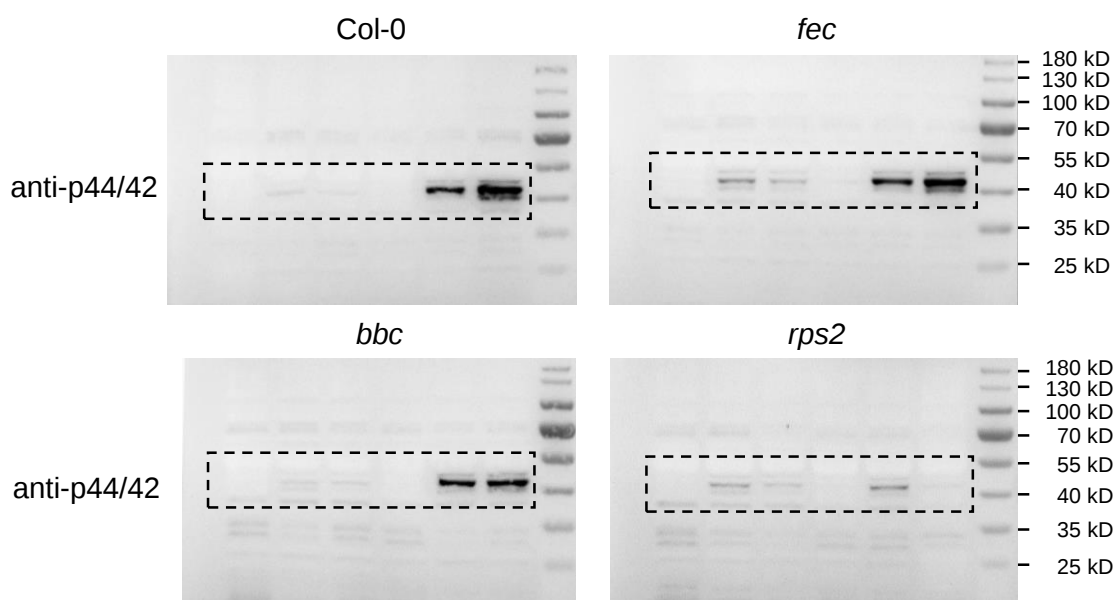
Figure 4d continued



Extended Data Fig. 2a



Extended Data Fig. 2c



Supplementary Table 2. Primers used in this study

Primer name	Sequences (5'-3')	Purpose
FRK1 qRT-FP	ATCTTCGCTTGGAGCTTCTC	For RT-qPCR
FRK1 qRT-RP	TGCAGCGCAAGGACTAGAG	
WRKY29 qRT-FP	CTCCATACCCAAGGAGTTATTACAG	
WRKY29 qRT-RP	CGGGTTGGTAGTTCATGATTG	
U-box qRT-FP	TGCGCTGCCAGATAATACACTATT	
U-box qRT-RP	TGCTGCCCAACATCAGGTT	
RPS2 qp-FP	GTGAGTAAATGTGGAGGATTGC	
RPS2 qp-RP	GTAGCTGAATTTCAAAGGGCA	
RbohD qRT-FP	GATCAAGGTGGCTGTTTACCC	
RbohD qRT-RP	TCGGCAGTTCACCAACATGA	
BAK1 qRT-FP	AGGTGTTCTCTTGGAGACTAGGA	
BAK1 qRT-RP	AGAGATCCAGAACTTGTAGCGT	
BIK1 qRT-FP	TTCTTCACAGCGATCCCGTC	
BIK1 qRT-RP	TTGCGTTGTAGTCCGCATCA	
XLG2 qRT-FP	AGTCTTCAGGCAATGTGGGAG	
XLG2 qRT-RP	CTCACGGCTTGATGGTGGAA	
MKK4 qRT-FP	CTTATCTCCATAGCCGTCACAT	
MKK4 qRT-RP	GAGCCAAGATCCTACTAACTCC	
MKK5 qRT-FP	CGCCGCTAAAAGCTTATCC	
MKK5 qRT-RP	CGTCTCACGGTATCTTCGTG	
MAPK3 qRT-FP	CCAAGAAGCCATAGCACTCA	
MAPK3 qRT-RP	AGCCATTCGGATGGTTATTG	
AvrRpt2 qRT-FP	CTTTTCACGATCCCCGACAGGG	
AvrRpt2 qRT-RP	GCGGTAGAGCATTGCGTGTGG	
WRKY22 qRT-FP	CATGGCGAAAGTACGGACAG	
WRKY22 qRT-RP	GAATTACGGTGTGTCTGGAGC	
GLIP4 qRT-FP	CGAAAGATTTGGGAACACAGTT	
GLIP4 qRT-RP	GATTACAGTCGTTGTGTTACCG	
AZI1 qRT-FP	TAATCCTAGGCCGGTCACAC	
AZI1 qRT-RP	GTCGACGTCAACCAAACCTT	
EARLI1 qRT-FP	GGTGTATGTGCGAACGTTTTAA	
EARLI1 qRT-RP	GTTGATACCAAGAACGTTAGCC	
AZI4 qRT-FP	GATTGTCGATGCAACCTAAGTC	
AZI4 qRT-RP	AGAGCATCGATAGGACAGTTTC	
pBD-AvrRpt2-F	CCGCTCGAGATGAAAATTGCTCCAGTTGC	For Cloning
pBD-AvrRpt2-R	CGGACTAGTTTAGCGGTAGAGCATTGCGT	

Supplementary Table 3. *P*-values of additional comparisons in Figure 2d, 4a and Extended Data Figure 10a

For Figure 2d

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.9682
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	*	0.0113
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	>0.9999
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	*	0.0289
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

For Figure 4a

AZI1

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
flg22 vs. DEX	No	ns	0.4253
flg22 vs. flg22+DEX	Yes	****	<0.0001
DEX vs. flg22+DEX	Yes	****	<0.0001

EARL1

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
flg22 vs. DEX	Yes	*	0.0256
flg22 vs. flg22+DEX	Yes	****	<0.0001
DEX vs. flg22+DEX	Yes	****	<0.0001

AZI4

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
flg22 vs. DEX	Yes	*	0.0256
flg22 vs. flg22+DEX	Yes	****	<0.0001
DEX vs. flg22+DEX	Yes	****	<0.0001

WRKY29

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
flg22 vs. DEX	Yes	*	0.0161
flg22 vs. flg22+DEX	Yes	***	0.0003
DEX vs. flg22+DEX	Yes	****	<0.0001

AvrRpt2

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
flg22 vs. DEX	Yes	****	<0.0001
flg22 vs. flg22+DEX	Yes	****	<0.0001
DEX vs. flg22+DEX	No	ns	0.8462

For Extended Data Figure 10a

BAK1

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.9990
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9027
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

For Extended Data Figure 10a

BIK1

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.1370
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9976
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	***	0.0003
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

XLG2

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.9406
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	***	0.0003
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9995
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	**	0.0013
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

MKK4

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.7159
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9967
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

MKK5

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.5101
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9952
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	***	0.0003
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001

MPK3

Tukey's multiple comparisons test	Significant?	Summary	Adjusted P Value
Mock:Col-0 vs. D36E:Col-0	No	ns	0.8757
Mock:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	****	<0.0001
Mock: <i>bbc</i> vs. D36E: <i>bbc</i>	No	ns	0.9997
Mock: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001
D36E:Col-0 vs. D36E(<i>avrRpt2</i>):Col-0	Yes	***	0.0002
D36E: <i>bbc</i> vs. D36E(<i>avrRpt2</i>): <i>bbc</i>	Yes	****	<0.0001