SUPPLEMENTARY MATERIAL

Figure legends

Figure S1 Screening for resistance to *Pst* DC3000 and *Colletotrichum higginsianum*.

(a) Standard methods. *Arabidopsis* is usually inoculated with *Pst* DC3000 by dip or infiltration method. Resistance level is usually evaluated by bacterial counts or lesion size in the infected plants. *Arabidopsis* is also inoculated by with droplets containing conidia of *C. higginsianum* and resistance/susceptibility is based on the resultant lesion size. (b) High throughput screening of the FOX lines employed in this study. Steps 1. Grow the FOX lines in 60-well plates for 3 weeks in aseptic condition, 2. Dip inoculate with *Pst* DC3000 or *C. higginsianum*, 3. Incubate, 4. Record image by digital photography of reflected light (green) under white light or fluorescent light (red) under UV.

Figure S2 Protein sequence analyses between BSR1 and related RLCKs.

Alignment (a) and phylogenic tree (b) for BSR1 and related RLCKs. Protein sequence data are from rice (BSR1/AK070024), *Arabidopsis* (NAK/At5g02290, BIK1/At2g39660, and PBS1/At5g13160) and tomato (TPK1b/EU555286, and PTO/DQ019170). Black and gray backgrounds indicate identical and similar amino acids, respectively. Numbers at nodes indicate bootstrap values. The bar corresponds to 0.1 amino acid substitutions per site. VIIa VIIb and VIIc represent the subfamilies of RLCKs.

Figure S1

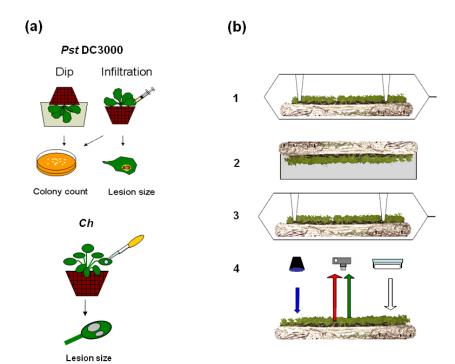


Figure S2

(a)

BSR1 At5g47070 At4g17660 BIK1 NAK TPK1b PBS1 PT0	10 20 30 ISCL GW K	QNSAPELTNRSETSSFNLQTPRSLP QKSAPELTTRKTTLSFNLPTPRSLP GLSLSRKSSSTVAAQKT SDDSKESSTASFSYMDD	SPRSIKDLYTEREQNIRVESYE SPTSIKDLYTDREQNQNQNLRVESEK EGEILSS-TPVKSETEN FGEILON-ANKWESIS	L SKATYVF SRKLVI GEGGFGI L SDATCEF SRKLKI GEGGFGS L KLATRNFRPD SVI GEGGFGCV L X SI TDJFPDD SWIFFGFFCC	YKGKILSNGDS YKATINNPTVGDS FKGWLDESTLTPT FKGWLDESSLADS
BSR1 At5g47070 At4g17660 BIK1 NAK TPK1b PBS1 PT0	130 140 150 AADR-LAVAVKCINGRCIOGKKWIAEVOF SDED-LVALKKINROLIOGKKWIAEVOF HSSP-LVALKKINROLIOGKKWIAEVOF HSSP-LVAVKKINROLIOGKRWIAEVOF KPGTGITAVKRINDEGGOGHRWIAEINW KPGTGVIJAVKRINDEGGOGHRWIAEINW TGOVAVKOLDRNGLOGHRBLVGVIA 	GVIEHPHIVKLIGYGAVDGERGPORL GVWHFWVVRLIGYGSDGETGIERL GVWHFWVRLIGYGSDGETGERL GOLSHPHIVKLIGYGLEDEFRL GOLSHPHIVKLIGYGLEEEFRL GOLSHPHIVKLIGYGLEEEFRL GOLSHPHIVKLIGYGLEECFRL SLLHFPHIVKLIGYGLEDEFRL	VYPWIPNKSLEDHLEVRA – YPPLST VYPMISNRSLEDHLEPRA – SHTLEVI VYPLUSNRSLEDHLETLR – TLTLSN VYPENOKGSLENHLERRGAYFKPLEV VYPENTRGSLENHLERRGTFYDPLST	IRRLOITL GAAEGLAYLHE GO-V (KRLEIML GAAEGLAYLHE	OVIYRDFKASNIL KVIYRDFKSSNUL OVIYRDFKSSNUL KVIYRDFKASNIL IVIYRDFKASNIL FVIYRDFKTSNIL PVIYRDFKSSNIL
BSR1 At5g47070 At4g17660 BIK1 NAK TPK1b PBS1 PT0	250 260 271 IDKD RAKI.SDF ELARE GED GANT HVY TAY IDD0 G CPKI.SDF ELARE GED GDN THVT TAR IDE5 HIKLSDF ELARE GED GDN THVT TAR IDADYIAKI.SDF ELARD GEV GDN STVS TAV IDSTYLIAKI.SDF ELARD GEV GDNSTVS TAV IDSTYLIAKI.SDF ELARD GEV GDNSTVS TAV IDSTYLIAKI.SDF ELARD GEV GDNSTVS TAV IDE6 HIKLSDF ELARD GEV GDNSTVS TAV IDE6 HIKLSDF ELARD GEV GDNSTVS TAV IDE7 HVK.SDF ELARD GEV GDNSTVS TAV	GTHGYAAPEYVQTGHLRLKSDVYSFGV GT <mark>D</mark> GYAAPEYVITGHL <mark>KTHC</mark> DVYSFGV	VLYBILTORRTLDRHRPOGBOKILE#A VLYBIITGRRTIERNKPVABRRLLD#A VLYBIITGRRTLERNKPLABOKILE#A	YAQFAPD SRNFRMIMDPRIRGEY YKEMPAD SQRF SMIVDPRIRNN YKKYP IN SKRFKMIVD SKI CNKY	SVKAARD DAKLAE PAAGARSLAKLAD PIAMVRRVAKLAD
BSR1 At5g47070 At4g17660 BIK1 NAK TPK1b PBS1 PT0	370 380 391 SCIL KRARE PETISETOV BRAVOSOPPI L CIKKID SEPTISETOV BRAVOSOPPI L CIKKID SEPTISETOV BRAVOSOPPI L CIKKID SEPTISETOV SETISTIE – ESISI OLISE ERIS SEPTISETOV SALGOLUDIL GK- OLISE DR. SEPTISETOV KITELIN I OK- CISED AS DETINET VALUE SVI ANOAYDI KCIAL SEPTISETOV TAK SVI ANOAYDI KCIAL SEPTISETOV TAK SVI ANOAYDI		PEKQSLRGVSVEG VGIRG	RAVAEAKMWGESLREKRROSEG	GTSESNSTG

(b)

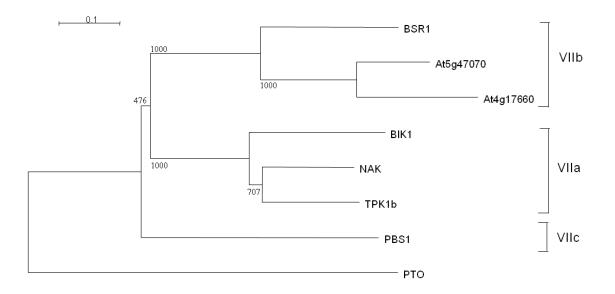


Table S1 Primers used for qRT-PCR

Accession No.	Forward	Reverse
AK059694	AAGGCATGGCTGATTCATGT	CAGATGTTCACATGGTGACAGTA
(reference)		
AK066255	TTCGGTGGTCGTCAAGAAC	CGTGCACAGCTGGTCGTA
(WRKY45)	0444040400T04T0404TT00	47040007000100
AK068993	CAAAGAGAGCTCATCAGATTCC	ATGACCGTCGGTGCCAGT
<u>(PAL)</u>		
AK068846	GGCTTCCTCAAGACAAAACG	TCGTCGTGTTTCACCAAAAA
AK103699	AGACCCTGCTTCGCTGGA	ATCACCATGGCGAAAAACAG
AK072201	TCACTTAATTGGCCGAAGAGA	CCTGTCAGGGCCTCACTACT
AK070024	AGGTGAGGTTGCACTCTGCT	CCAAGAATCCACCAACTCGT
AK100547	AGCTCTTGTGGGCAGTCATT	CGAATGGAAAGTAAACCTGACC
AK072899	CTGGACACCAGCCTTTTGTT	GCTTGTCTTTCTTCGGTGAATC
AK102525	ATTTTCTCTTCGCGCTTCTG	TGCATATTTTCACAGTTTTGCAC
AK102125	GCTGTTACGGCAAACGGTTA	CTCCCAAGTCCCAGTTCAAA
AK099032	TGCTTTTCTTTTTGCGCTCT	TTTGCTCAAATTGTCCCAGA
AK069592	GGCCGTTGATTGGTGTAATC	ACCGGCACATACACACAAAA