Supplemental Table 1. Twenty blast isolates from the Philippines used in leaf blast isolate-specific screening of WISH lines carrying the *pi21* allele.[a]

Isolate name	Group[b]	Subgroup[c]	Philippine collection site
Ca89	I	b	Luzon and Mindanao islands
IK81-3	II	-	Southern Luzon island
M39-1-3-8-1	III	a	Southern Luzon island
V850256	III	c	Southern Luzon island
M64-1-3-9-1	III	a	Southern Luzon island
V86010	IV	e	Central and Southern Luzon island
BZ64-1	IV	-	unknown
BN111	V	a	Southern Luzon island
PO6-6	V	b	Southern Luzon island
M39-1-2-21-2	VI	b	Central and Southern Luzon island
JMB8401	XII	a	Southern Luzon island
43	XVIII	-	unknown
M36-1-3-10-1	XIX	b	Southern Luzon and Mindanao islands
9475-1-3	XX	-	unknown
BN209	XXII	a	Southern Luzon island
M101-1-2-9-1	XXII	a	Southern Luzon island
IK81-25	XXIII	-	unknown
JMB840610	XXIV	b	Southern Luzon island
5167-1	XIX	-	unknown
Pi9-G7-2K-1	-	-	-

[a]adapted from Teleblanco-Yanoria et al (2008) and Selisana et al (2017); [b]grouping of blast isolates based on reactions against seven differential varieties; [c]sub-grouping based on reactions against twelve additional differential varieties; - indicates no data available.

Table 2. Reaction of WISH lines to twenty leaf blast isolates in the glasshouse.

Line name	Blast isolates																			
	1[a]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LTH	3[b]/S	3/S	0/R	3/S	4/S	4/S	3/S	4/S	3/S	3/S	5/S	5/S	3/S	5/S	5/S	5/S	5/S	5/S	4/S	4/S
CO39	4/S	3/S	2/R	4/S	4/S	4/S	3/S	4/S	4/S	3/S	5/S	5/S	4/S	4/S	4/S	5/S	5/S	5/S	4/S	0/R
IR65482-4-136-2-2	0/R	0/R	0/R	0/R	0/R	0/R	0/R	0/R	0/R	0/R	1/R	0/R	4/S	0/R	0/R	1/R	2/R	0/R	0/R	0/R
IR72	0/R	0/R	0/R	1/R	0/R	3/S	0/R	0/R	0/R	0/R	2/R	1/R	0/R	0/R	0/R	0/R	2/R	1/R	0/R	2/R
Sensho	0/R	1/R	0/R	4/S	2/R	1/R	1/R	1/R	3/S	3/S	2/R	2/R	1/R	0/R	2/R	4/S	2/R	1/R	1/R	0/R
IR63307	2/R	1/R	0/R	0/R	0/R	2/R	1/R	2/R	2/R	1/R	1/R	2/R	2/R	0/R	5/S	5/S	2/R	0/R	4/S	0/R
WISH 110:1-1-11-12-1	1/R	0/R	0/R	0/R	0/R	1/R	1/R	0/R	1/R	0/R	1/R	1/R	1/R	0/R	2/R	2/R	1/R	0/R	2/R	0/R
WISH 110:1-1-11-5-4	1/R	1/R	0/R	0/R	0/R	1/R	1/R	1/R	1/R	1/R	1/R	1/R	1/R	0/R	2/R	2/R	1/R	0/R	1/R	0/R
WISH 110:2-5-2-1-1	1/R	0/R	0/R	0/R	0/R	1/R	1/R	1/R	1/R	1/R	1/R	1/R	1/R	0/R	2/R	2/R	1/R	0/R	2/R	0/R
WISH 110:2-5-2-12-1	1/R	0/R	0/R	1/R	0/R	1/R	0/R	1/R	1/R	0/R	1/R	1/R	1/R	0/R	1/R	1/R	1/R	0/R	2/R	0/R
WISH 110:2-5-2-22-1	1/R	1/R	0/R	0/R	0/R	1/R	0/R	1/R	1/R	0/R	1/R	1/R	1/R	0/R	2/R	2/R	1/R	0/R	2/R	0/R
IRBB	2/R	3/S	1/R	4/S	0/R	2/R	3/S	2/R	0/R	0/R	5/S	0/R	4/S	4/S	2/R	4/S	5/S	5/S	0/R	0/R
WISH 48:1-3-1-1	1/R	1/R	0/R	3/S	0/R	1/R	1/R	0/R	0/R	0/R	2/R	0/R	1/R	2/R	1/R	4/S	4/S	2/R	0/R	0/R
WISH 48:1-3-18-1	1/R	1/R	0/R	3/S	0/R	2/R	2/R	1/R	0/R	0/R	2/R	0/R	1/R	2/R	1/R	4/S	4/S	3/S	1/R	0/R
WISH 48:1-3-2-1	1/R	1/R	1/R	1/R	0/R	0/R	1/R	1/R	0/R	0/R	2/R	0/R	1/R	1/R	0/R	3/S	3/S	2/R	0/R	0/R
WISH 48:1-3-20-1	1/R	2/R	1/R	4/S	0/R	2/R	1/R	1/R	0/R	0/R	3/S	0/R	1/R	1/R	1/R	4/S	4/S	3/S	0/R	0/R
WISH 48:1-3-21-1	1/R	1/R	0/R	3/S	ND	0/R	0/R	1/R	0/R	0/R	1/R	0/R	2/R	1/R	1/R	4/S	4/S	2/R	0/R	0/R
KP	1/R	2/R	0/R	3/S	4/S	1/R	1/R	2/R	4/S	3/S	3/S	5/S	1/R	2/R	4/S	2/R	3/S	1/R	4/S	0/R
WISH 40:1-3-16-11	1/R	0/R	0/R	2/R	2/R	1/R	0/R	1/R	1/R	0/R	2/R	2/R	0/R	1/R	2/R	1/R	2/R	1/R	3/S	1/R
WISH 40:1-3-3-9	1/R	1/R	0/R	2/R	2/R	1/R	0/R	1/R	1/R	2/R	1/R	2/R	0/R	1/R	2/R	1/R	1/R	1/R	1/R	0/R
WISH 40:1-3-7-7	1/R	0/R	0/R	1/R	0/R	1/R	1/R	0/R	2/R	1/R	1/R	2/R	0/R	1/R	2/R	1/R	1/R	1/R	1/R	0/R

[a]leaf blast isolates used in the study; 1=M36-1-3-10-1, 2=JMB840610, 3=43, 4=V850256, 5= V86010, 6=M39-1-3-8-1, 7=M39-1-2-21-2, 8=Ca89, 9=BN209, 10=BN111, 11=Pi9-G7-2K-1, 12=M101-1-2-9-1, 13=JMB8401, 14=IK81-3, 15=5167-1, 16=P06-6, 17=M64-1-3-9-1, 18=IK81-25, 19=9475-1-3, 20=BZ64-1

[b]numbers indicate lesion scores; 0-2.9=resistant (R), 3-5=susceptible (S). Red text in shaded cells indicate acquired resistance due to *pi21* introgression, whereas blue text in shaded cells indicate transgressive resistance.

Table 3. Grain quality of WISH lines having the *pi21* allele for leaf blast resistance from Sensho measured during the dry (DS) and wet season (WS) of 2017.

Line name	Raw grain length (mm)		Raw grain width (mm)		Ratio of grain length and width		Cooked grain length (mm)		Cooked grain width (mm)		Ratio of cooked grain length and width		Chalkiness (%)		Amylose content	
	DS	WS	DS	WS	DS	WS	DS	WS	DS	WS	DS	WS	DS	WS	DS	WS
Sensho	6.0	6.1	2.9	2.8	2.1	2.2	10.0	9.9	4.3	4.4	2.4	2.3	6.8	16.4	21	17.4
IR63307	5.8	5.9	2.8	2.7	2.1	2.2	9.2	8.9	4.0	3.9	2.3	2.3	7.3^{*a}	10.5^{*a}	24^{*}	21.1^{*}
WISH 110:1-1-11-12-1	5.9	6.0	2.8	2.8	2.1	2.1	9.2	9.1	4.1	3.9	2.2	2.3	3.5^{*b}	8.3^{*b}	23^{*}	20.5^{*}
WISH 110:1-1-11-5-4	5.9	5.9	2.8	2.7	2.1	2.2	9.5	9.4	4.0	3.9	2.4	2.4	1.6^{*c}	6.2^{*c}	23^{*}	22.4^{*}
WISH 110:2-5-2-1-1	6.1	6.0	2.8	2.7	2.2	2.2	10.0	9.7	4.1	3.9	2.5	2.5	0.1^{*d}	3.2^{*d}	23^{*}	22.7^{*}
WISH 110:2-5-2-12-1	5.7	5.6	2.8	2.7	2.0	2.1	9.1	8.8	4.1	3.8	2.2	2.3	1.7^{*c}	4.7^{*e}	23^{*}	21.6^{*}
WISH 110:2-5-2-22-1	5.5	5.5	2.8	2.8	2.0	2.0	9.3	8.9	4.2	4.0	2.2	2.2	5.4^{*e}	6.9^{*f}	23^{*}	22.0^{*}
IRBB	6.9	6.8	2.2	2.0	3.1	3.4	10.0	10.3	4.0	3.5	2.6	2.9	0.3^{a}	0.4^{a}	13^{*a}	12.9^{*a}
WISH 48:1-3-1-1	6.6	6.6	2.3	2.1	2.9	3.1	10.0	10.2	3.5	3.5	2.9	2.9	0.3^{a}	0.8^{b}	19^{*b}	15.3^{*b}
WISH 48:1-3-18-1	6.4	6.8	2.3	2.1	2.8	3.2	11.0	10.5	3.5	3.2	3.0	3.3	1.2^{b}	0.2^{c}	21^{*c}	18.2^{*c}
WISH 48:1-3-2-1	6.3	6.5	2.3	2.1	2.7	3.1	9.9	10.1	3.6	3.4	2.8	3.0	1.6^{c}	4.5^{d}	21^{*c}	19.6^{*d}
WISH 48:1-3-20-1	6.7	6.9	2.3	2.1	2.9	3.3	9.9	10.4	3.6	3.5	2.8	3.0	5.6^{d}	7.9^{e}	20^{*d}	17.0^{*e}
WISH 48:1-3-21-1	6.5	6.7	2.3	2.1	2.8	3.2	9.8	9.9	3.5	3.4	2.8	2.9	0.6^{e}	2.0^{f}	18^{*b}	18.9^{*f}
KP	5.1	5.0	2.9	2.7	1.8	1.9	8.7	8.0	4.0	3.8	2.2	2.1	7.5^{a}	8.5^{a}	23^{*}	21.3^{*}
WISH 40:1-3-16-11	5.0	5.2	2.9	2.9	1.7	1.8	8.5	8.7	3.8	3.9	2.2	2.2	17.0^{b}	8.4^{a}	23^{*}	21.2^{*}
WISH 40:1-3-3-9	5.0	5.0	2.9	2.8	1.7	1.8	8.4	8.3	3.9	3.8	2.2	2.2	10.2^{c}	14.5^{b}	24^{*}	22.0^{*}
WISH 40:1-3-7-7	5.1	5.0	3.0	2.8	1.7	1.8	9.5	8.7	4.2	4.0	2.3	2.2	6.60^{d}	13.1^{c}	22^{*}	21.6^{*}

[*]indicate significant differences in the mean values observed between seasons. Letters indicate significant differences in the mean values observed acrossWISH lines in the same genetic background. Similar letters indicate non-significant differences among lines. Significance was calculated at $p<0.05$.