

Table S1. Rice varieties and their sources.

serial	variety	province	serial	variety	province	serial	variety	province	serial	variety	province
1	Dannuo3	Liaoning	21	Tiejing14	Liaoning	41	Yunongjing12	Henan	61	Longjing31	Heilongjiang
2	Danzaodao4	Liaoning	22	Tiejing15	Liaoning	42	Yunongjing16	Henan	62	Longjing39	Heilongjiang
3	Danjing17	Liaoning	23	Tiejing16	Liaoning	43	Zhengdao19	Henan	63	Longjing46	Heilongjiang
4	Danjing18	Liaoning	24	Tiejing17	Liaoning	44	Zhengdao20	Henan	64	Longjing47	Heilongjiang
5	Danjing20	Liaoning	25	Tiejing20	Liaoning	45	Zhengdao201	Henan	65	Longjing50	Heilongjiang
6	Dan219	Liaoning	26	Tiejing1507	Liaoning	46	Xinnongjing1	Xinjiang	66	Longjing51	Heilongjiang
7	Dan1634	Liaoning	27	Tiejing1601	Liaoning	47	Xinnongjing3	Xinjiang	67	Longjing61	Heilongjiang
8	Suijing15	Heilongjiang	28	Tiejing1602	Liaoning	48	Xindao3	Xinjiang	68	99A	Liaoning
9	Suijing18	Heilongjiang	29	Tiejing1603	Liaoning	49	Xindao11	Xinjiang	69	52A	Liaoning
10	Suijing21	Heilongjiang	30	Tiejing1605	Liaoning	50	Jingjing2	Beijing	70	C2106	Liaoning
11	Suijing28	Heilongjiang	31	Tiejing18	Liaoning	51	Jingjing3	Beijing	71	Shengdao18	Shandong
12	Kenjing12	Heilongjiang	32	Jijing88	Jilin	52	Zhongzuo1701	Beijing	72	Shengdao19	Shandong
13	Kenjing27	Heilongjiang	33	Jijing511	Jilin	53	Zhongzuo1703	Beijing	73	Shengdao22	Shandong
14	Kenjing31	Heilongjiang	34	Jijing515	Jilin	54	Zhongzuo1704	Beijing	74	Shengdao072	Shandong
15	Kenjing32	Heilongjiang	35	Jijing528	Jilin	55	Fuyuan4	Ningxia	75	Liaoxing1	Liaoning
16	Kenjing33	Heilongjiang	36	Jijing809	Jilin	56	2009G-19	Ningxia	76	Liaonong979	Liaoning
17	Kenjing34	Heilongjiang	37	Tonghe99	Jilin	57	Ningjing43	Ningxia	77	Liaokai79	Liaoning
18	Kenjing42	Heilongjiang	38	Tongyu269	Jilin	58	Ningjing48	Ningxia	78	Liaoxing21	Liaoning
19	Tiejing7	Liaoning	39	Tongyu256	Jilin	59	Kenjing8	Heilongjiang	79	Liaojing212	Liaoning
20	Tiejing11	Liaoning	40	Yunongjing11	Henan	60	Longjing20	Heilongjiang	80	Liaojing401	Liaoning

Table S2. Molecular markers of rice blast resistance genes.

Gene/Locus	Primer name	Primer sequence	Expected Size (bp)
<i>Pib</i>	<i>Pib</i> -F	TAACTCCAAAGGAGCTCAGG	915
	<i>Pib</i> -R	CGTGATGCGTGGACTTTCGC	
<i>Pikh/Pik-ku/Pikm/Piks/Pikp</i>	RGA4-F	GGAAAGCTGATATGTTGTCTG	1326
	RGA4-R	ACTCGGAGTCGGAGAGTCAG	
<i>Pi5</i>	<i>Pi5</i> -F	CCAAGTGCAACTAGAGGTATGGT	1105
	<i>Pi5</i> -R	GTGCATCATCTTCAGATATCAGG	
<i>Pita</i>	YL155	AGCAGGTTATAAGCTAGGCC	1000
	YL87	CTACCAACAAGTTCATCAAA	
<i>Pita</i>	YL183	AGCAGGTTATAAGCTAGCTAT	1000
	YL87	CTACCAACAAGTTCATCAAA	
<i>Ptr</i>	Z12-F	TGCAGATTTGACTGCTCGGT	226(S)/214(R)
	Z12-R	GGGATCTTCCTCGCCCAA	
<i>Pi2/Pi9/Piz-t</i>	<i>Pi9</i> Pro-F	TGATTATGTTTTTTATGTGGGG	111 for <i>Pi2/Piz-t</i> allele, 128 for <i>Pi9</i> allele
	<i>Pi9</i> Pro-R	ATTAGTGAGATCCATTGTTCC	138 for non- <i>Pi2/Piz-t</i> , non- <i>Pi9</i> alleles
<i>Pi2/Pi9/Piz-t</i>	<i>Pi2</i> GF	GCAGGAATCTCAGATGGTGG	322 for <i>Pi2</i>
	<i>Pi2</i> GR	TCTCTCTTAGCTGATCCAAGTCA	

Note: R indicates resistance and S indicates susceptible.