

Supplementary Information

cDNA synthesis

Table S1. PCR mixture step 1 of cDNA synthesis

Sr. No.	Reagent	Amount
1	RNA	Total RNA 1pg-500ng
2	4 x gDNA wiper mixture	2 μ L
3	RNase free ddH ₂ O	Calculated amount up to 8 μ L
	Total vol.	10 μ L

PCR program

Lid Temp. = 45 °C,

1. 42 °C for 2 min

2. Hold at 16 °C

3. End

Table S2. PCR mixture step 2

Sr. No.	Item	Amount
1	5x qRT super mix II	2 μ L added to above solution after PCR

PCR program used was as follow.

Lid Temp. = 105 °C

20 °C for 10 min

50 °C for 30 min

85 °C for 5 min

Hold at 16 °C

End

Table S3. Primers used for assessing relative expression level of different defense marker genes in rice

Gene	Locus	Forward Primer	Reverse primer
<i>WIPK/MPK3</i>	Os03g17700	CGACTTCGAGCAGAAGGCTCTA	G TTCATCTCGATCGCTTCGTT
<i>SIPK/MPK6</i>	Os06g06090	CGCACGCTCAGGGAGATC	GGTATGATATCCCTTATGGCAACAA
<i>MPK4</i>	Os10g38950	CCAGTTGCTACGAGGGCTAAA	CAAATTGCTTGGCTTCAGATCA
<i>LRR1</i>	Os06g47650	GGCAAGGGAGGATCAAATAA	AGCTTGGATCCATTGGGTAG
<i>PLDα1</i>	Os01g07760	AGTATCTGTGCATGGTTGAGT	TGCAAAGTACAATCATGCCAA
<i>AOS1</i>	Os03g55800	CGAGCTCTTCTCCGATACG	GTCAGAAGGTGGCCTTCTGAG
<i>ERF3</i>	Os01g58420	G TTCGCTTTCTTTTCAGAGGATA	GCAGCCTGCTCATAGAAAAAGTAA
<i>WRKY24</i>	Os01g61080	AAGAGATGGAGGAAAGACGGTG	TGTCGATGTCGCTCATGGTT
<i>WRKY53</i>	Os05g27730	AACGGCTGCTCCATGAAGAA	TTGTGTGCGCCCTTGTAGAC
<i>WRKY45</i>	Os05g25770	TCGGTGGTCGTC AAGAACC	AAGTAGGCCTTTGGGTGCTT
<i>WRKY70</i>	Os05g39720	CCGCTGCTGTTTTGATCATCT	GGAGCTAAGCTAACTCACTCCACA
<i>ACS2</i>	Os04g48850	CTCAGCCCAGCCATCTCT	G TAGTAAGGCGCAGCATTAGCA
<i>NPR1</i>	Os01g09800	TGGACAGGTTATCACCATTGGT	CCGCAGCTTCCATTCTATG
<i>WRKY30</i>	<i>WRKY30</i>	AACAGTGGCCACCCAAGCT	G TTCAGGTCTCCGGTGAAGAAG
<i>OsWRKY45</i>	Os05g25770	TCGGTGGTCGTC AAGAACC	AAGTAGGCCTTTGGGTGCTT
<i>OsWRKY24</i>	Os01g61080	AAGAGATGGAGGAAAGACGGTG	TGTCGATGTCGCTCATGGTT
<i>OsWRKY70</i>	Os05g39720	CCGCTGCTGTTTTGATCATCT	GGAGCTAAGCTAACTCACTCCACA
<i>OsWRKY53</i>	Os05g27730	AACGGCTGCTCCATGAAGAA	TTGTGTGCGCCCTTGTAGAC