

Supplement Figure1: Identification of infected plants by RT-PCR

Two pairs of specific primers were used. Left: primers designed according to S8 gene encoding core protein; Right: primers designed according to S9 gene encoding non-structural protein. J1-J6: Controlled normal plants; S1-S6: Disease infected plants with dwarf and white tumors along the leaf vein.

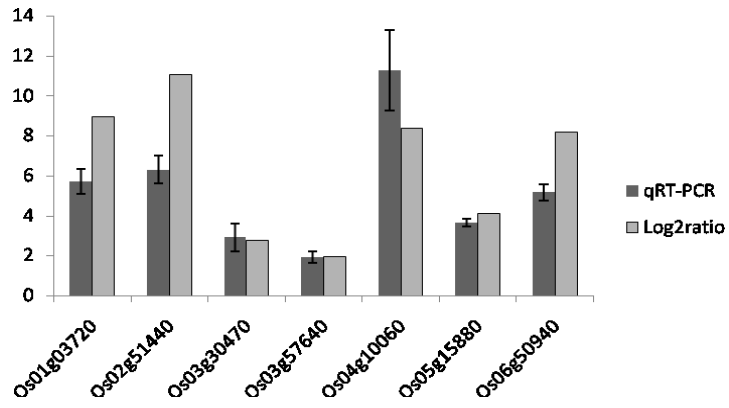
Supplement table 1: The remarkable DEGs

Locus ¹	Annotation	Log ₂ ratio(IRL/WT)
LOC_Os02g51440.1	laccase precursor protein, putative, expressed	10.47
LOC_Os08g37210.1	Patatin-related phospholipase A	9.31
LOC_Os02g16940.1	OsSub13 - Putative Subtilisin homologue, expressed	9.24
LOC_Os09g24370.1	expressed protein	9.16
LOC_Os01g03720.1	MYB family transcription factor, putative, expressed	9.02
LOC_Os06g50940.1	GDSL-like lipase/acylhydrolase, putative, expressed	8.89
LOC_Os10g31420.1	retrotransposon protein, putative, unclassified, expressed	8.79
LOC_Os12g01400.1	OsCML26 - Calmodulin-related calcium sensor protein, expressed	8.64
LOC_Os02g54180.1	expressed protein	8.47
LOC_Os06g25950.1	expressed protein	8.31
LOC_Os11g47530.1	glycosyl hydrolase, putative, expressed	8.31
LOC_Os03g37930.1	potassium transporter, putative, expressed	8.22
LOC_Os07g35650.1	TKL_IRAK_DUF26-lc.2 - DUF26 kinases have homology to DUF26 containing loci, expressed	8.13
LOC_Os08g32750.1	bifunctional monodehydroascorbate reductase and carbonic anhydrase/nectarin-3 precursor, putative, expressed	8.09
LOC_Os02g52180.1	plastocyanin-like domain containing protein, putative, expressed	8.02
LOC_Os07g25540.1	flavin monooxygenase, putative, expressed	7.99
LOC_Os04g22080.1	retrotransposon protein, putative, unclassified, expressed	7.89
LOC_Os01g52900.1	expressed protein	7.82
LOC_Os01g44340.1	pectinesterase, putative, expressed	7.80
LOC_Os10g38340.1	glutathione S-transferase GSTU6, putative, expressed	7.74
LOC_Os04g10010.1	sex determination protein tasselseed-2, putative, expressed	6.29

LOC_Os01g57030.1	expressed protein	5.63
LOC_Os04g56900.1	transferase family protein, putative, expressed	5.23
LOC_Os03g30300.2	6-phosphogluconolactonase, putative, expressed	-7.72
LOC_Os08g40150.2	AT hook motif domain containing protein, expressed	-7.77
LOC_Os04g26870.1	oxidoreductase, aldo/keto reductase family protein, putative, expressed	-7.80
LOC_Os09g30418.1	heat shock protein, putative, expressed	-7.80
LOC_Os10g05820.1	POE15 - Pollen Ole e I allergen and extensin family protein precursor, expressed	-8.03
LOC_Os09g09520.1	transporter family protein, putative, expressed	-8.15
LOC_Os04g52100.1	peptidase, M24 family protein, putative, expressed	-8.38
LOC_Os06g28194.1	expressed protein	-8.43
LOC_Os04g26550.1	expressed protein	-8.67
LOC_Os02g37360.1	expressed protein	-8.93

Supplement table 2: Primers used for PCR and qRT-PCR analysis

name	Forward (5'-3')	Reverse (5'-3')
For PCR		
RBSDV-S10	ACTTGGAGCGCAGTAGCGTCA	ACGGGTGCCAAATGAAATGCTTTTT
RBSDV-S9	GTTGCCAATTCTGAACCGTG	AAGACAGTTTGACGGGAAGC
RSV-RNA3	TGTGAGAGGCACTGGCTTTGTGAGA	CACCAACCCGCTGACTTCAGATGC
For qRT-PCR		
LOC_Os01g03720.1	ACGTGTACCACCACCACATC	TCCCATCTCAGCTCGGAGAA
LOC_Os01g06310.1	GCACATGGGATCGTACCACA	AAGCTGGTGGGCACGTATAG
LOC_Os02g51440.1	TGGTGAGTGGTGAATGACG	GCGATGGCGAAGAACATGTC
LOC_Os03g30470.1	GGTCCCATCCAGCTCTCCTA	GGCGTCATCCAGAACCAGAA
LOC_Os03g57640.1	AAACTGAGCTGCCTGAGTCC	GCGGAGGGAGGATGTTGTAG
LOC_Os04g10010.1	AGCACTTCTCGGACAGCAAA	CCACCAGCTTCCTTGCATCA
LOC_Os04g10060.1	TGACATTTCGCATGGGACCA	TTGCCATCCTTGCATTCCCT
LOC_Os04g10160.1	GCAGTTCTTCGCAAGCAAA	GTGAGGAGAGAGACGAGGGT
LOC_Os05g15880.1	GCCAAGATGCTCTACGACCA	CACTTCTCGAACGACTGCCT
LOC_Os06g50940.1	TCTGGGTTTCGACAAGAGCC	GTACACCACCTGCTTCGACA
LOC_Os03g50885 (Rice actin)	TCGGCTACAACCCTGACAA	CAAACCTTGACGGCAATGTGG



Supplement Figure 2: The expressions verification of DEGs by qRT-PCR.