Table 1 Identification criteria of rice resistance to BPH at seedling stage (Wu et al., 1986)

Injury grade at seedling stage (level)	The standard of International Rice Research Institute
0	Unharmed
1	Victimization is very light
3	The first and second leaves of most plants turn yellow
5	Plants become noticeably yellow and dwarfed, or more than half of the plants wither and die
7	More than half of the plants withered and died, and the remaining plants were severely dwarfed and were near death
9	All plants die

Table 2 qRT-PCR primer design

Primer name	Sequence（5' to 3'）
OsPYL9-F	CGCAACTACCGCTCCGTCAC
OsPYL9-R	TGGTGTCCTCCGCCGTGTTC
OsABA8ox2-F	ACAGGGTGGAGGGCGAGATTG
OsABA8ox2-R	CTGCTTGGAGGCGAAGAAGACG
OsBZIP23-F	CTGTCGTCGCTGTCGCCATC
OsBZIP23-R	GATCATCCGCCGCTGTCTTCTC
OsAOS1-F	CGGCGGCTTGCATCTCGTTC

OsAOS1-R	TTCGGCGACACCACCTCCTG
OsJAZ11-F	CGCTCTTCTACAACGGTTCAGTCG
OsJAZ11-R	GTTGCCTCGGTTGCCATCCTC
Osbph6-F	TTTGGAGAATGAGTGGGCAG
Osbph6-R	GTCGTCGGACTCGTTGAAGATGG
actin1-F	CAGCACATTCCAGCAGAT
actin1-R	GGCTTAGCATTCTTGGGT

Table 3 RNA-seq data quality of seventeen samples

Sample	Raw reads	Raw bases	Error rate(%)	Q20(%)	Q30(%)	GC content(%)
OB1	48042250	7206337500	0.0264	97.32	92.96	48.81
OB2	54509412	8176411800	0.0273	97	92.16	50
OB3	54101264	8115189600	0.0265	97.32	92.92	51.15
OE1	52051592	7807738800	0.0311	95.45	89.29	52.17
OE2	41267608	6190141200	0.0262	97.42	93.12	52.25
OE3	49202446	7380366900	0.0263	97.39	93.06	51.65
R1	47863938	7179590700	0.0268	97.2	92.59	49.89
R2	51217950	7682692500	0.0265	97.31	92.84	51.76

R3	47164764	7074714600	0.0266	97.26	92.75	52.02
RB1	59765034	8964755100	0.026	97.5	93.37	52.15
RB2	48530162	7279524300	0.0259	97.55	93.42	51.65
RB3	48435258	7265288700	0.027	97.1	92.46	52.17
ZH1	52793434	7919015100	0.026	97.54	93.33	50.95
ZH2	46698580	7004787000	0.026	97.54	93.35	50.38
ZH3	51892558	7783883700	0.0259	97.58	93.4	50.01
ZHB1	51867412	7780111800	0.0261	97.46	93.2	51.1
ZHB2	47901308	7185196200	0.0261	97.49	93.27	50.11

Table 4 Statistical results of differential genes under different difference multiples（$p < 0.05$）

Fold change	Down-regulated				Up-regulated			
	ZH vs OE	ZHB vs OEB	ZH vs R	ZHB vs RB	ZH vs OE	ZHB vs OEB	ZH vs R	ZHB vs RB
⩾2	65	72	81	285	323	171	243	1724
⩾3	28	35	39	81	164	127	161	786
⩾4	18	19	27	45	126	109	124	464
⩾5	16	16	17	29	107	99	108	331
⩾6	15	14	11	24	93	85	93	263
⩾7	15	11	10	23	85	82	88	213