

Table S1. Summary of screening for rice target lines

Screening	No. of plants for pZH36	No. of plants for pZH37	Total
hygromycin-resistant	1717	2236	3953
<i>gusplus</i> PCR	1566	1570	3136
1st qPCR (<i>gus</i>)	844	600	1444
2nd qPCR (<i>hpt</i>)	307	166	471
Southern (LB, <i>hpt</i> probe)	93	96	188
Southern (RB, <i>gus</i> probe)	46	30	76
TAIL-PCR (LB)	34	28	62
extragenic	13	15	28
TAIL-PCR (RB)	10	6	16
near ATG start	4	1	5
near centromere	3	1	4
Target lines	3	4	7

Table S2. Primers used for this study

Name of primers	Sequence (5' - 3')	Function
hptF	tcgtccatcacagtttgcc	qRT-PCR for <i>hpt</i>
hptR	tcggtcaatacactacatgcc	qRT-PCR for <i>hpt</i>
spsF	ttgcgcctgaacggatat	qRT-PCR for <i>SPS</i>
spsR	cggttgatcttttcgggatg	qRT-PCR for <i>SPS</i>
gusplusF:	cgtcccaagcagttacaatg	PCR and qRT-PCR for <i>gusplus</i>
gusplusR	cgttcgtaccagacatatccg	PCR and qRT-PCR for <i>gusplus</i>
LAD1	acgatggactccagagcggccgc (g/c/a) n (g/c/a) nnnggaa	Primers for TAIL-PCR for target line T-DNA insertion site analysis
LAD2	acgatggactccagagcggccgc (g/c/t) n (g/c/t) nnnnggtt	
LAD3	acgatggactccagagcggccgc (g/c/a) (g/c/a) n (g/c/a) nnccaa	
LAD4	acgatggactccagagcggccgc (g/c/t) (g/c/t) n (g/c/t) nnncggt	
AC	acgatggactccagag	RB specific primers for transformants of pZH36 and pZH37
RB1	cgtgactgggaaaaccctggcggtt-	
RB2	acgatggactccagtcggcccaacttaatcgccctgcagcacatc	
RB3	gaagaggcccgccacgatcgccctt	
LB1	ggatcgccacgactccggcgta	LB specific primers for transformants of pZH36 and pZH37
LB2	acgatggactccagtcggccgctcggcgctacacaaatcgcccg	
LB3	ccgagggcaaagaatagccatggg	
hptpF	atgaaaaagcctgaactcacgcgac	<i>hpt</i> probe for Southern blot
hptpR	ctatttctttgcctcggacgagtgc	
guspluspF	atggtagatctgagggtaaatttcta	<i>gusplus</i> probe for Southern blot
guspluspR	tcacacgtgatggtgatggtgatggc	
gfppF	atggtgagcaaggcgaggagctg	<i>gfp</i> probe for Southern blot
gfppR	ttacttgtagctcgtccatgc	
barpF	atgagcccagaacgacgcc	<i>bar</i> probe for Southern blot
barpR	tcaaattctcggtgacgggca	
a	cagattgcttggtatggct	Recombination junction for type I site-specific integration
b	ggtgaactaccgatgatcgtaaga	
c	cggcgaactaataacgtca	
d	tcaaattctcggtgacgggca	
e	accgcctttgagtga	Recombination junction for type II site-specific integration
f	tgatccaagctcaagctgct	
g	tcaaattctcggtgacgggca	
h	cggcgaactaataacgtca	
Bxb1-f	atgagagccctggtagtcatcc	Bxb1 integrase
Bxb1-R	cgacatcccgtgtgtagc	