

Table S1. Oligonucleotide primers used in this study.

Assay	Primer Name	Sequence (5'-3')
Genetic Transformation	<i>m-F</i>	ATGGACGAGGACCGGAGCGCC
	<i>m-R</i>	TCGATGGTTCCACTGCTTTTGCTGAGC
DNA Blot Analysis	<i>rGUSp-F</i>	CTTCTGCGGGCGATTTGT
	<i>rGUSp-R</i>	GACAGCGTCTCCGACCTGAT
Genome Walking	<i>SP1</i>	CTTGACATTGGGGAGTTTAGCGAGA
	<i>SP2</i>	CCCAATACGAGGTCGCCAACATCTT
	<i>SP3</i>	CGTCCGAGGGCAAAGAAATAGAGTA
Left-border	<i>L-F1</i>	CTTGCGGAGAAGTAAGTGGATGAA
	<i>L-R1</i>	TCCGAGGGCAAAGAAATAGAGTAGAT
	<i>L-F2</i>	CTCCTGGTCCTTCATCGCGTAGT
	<i>L-R2</i>	CGAGGTCGCCAACATCTTCTTCT
	<i>L-F3</i>	CGAGGCTGCCATCAATGTAAGTG
Right-border	<i>L-R3</i>	CGAGGTCGCCAACATCTTCTTCT
	<i>R-F1</i>	GCGTTGGCGGTAACAAGAAAGGG
	<i>R-R1</i>	CGATCATGGCTGCGTGTTTGGAG
	<i>R-F2</i>	TTGAATCCTGTTGCCGGTCTTGC
	<i>R-R2</i>	CGCCGACTTCTTCCATCACATCCTT
	<i>R-F3</i>	CCTGTTGCCGGTCTTGCGATGAT
	<i>R-R3</i>	AGCCCTTGCCGTTGTCGCTCATT

Table S2. Rice genes used in endogenous gene expression assays.

Gene name	Accession number	NCBI ID	Sequence (5'-3')	Amplicon size (bp)
<i>OsAGPL1</i>	D50317	Os05g0580000	F:GGAAGACGGATGATCGAGAAAG R: CACATGAGATGCACCAACGA	140
<i>OsAGPL2</i>	U66041	Os01g0633100	F: AGTTCGATTCAAGACGGATAGC R: CGACTTCCACAGGCAGCTTATT	96
<i>OsAGPS1</i>	AK073146	Os09g0298200	F: GTGCCACTTAAAGGCACCATT R: CCCACATTTTCAGACACGGTTT	97
<i>OsAGPS2b</i>	AK103906	Os08g0345800	F: AACAATCGAAGCGCGAGAAA R: GCCTGTAGTTGGCACCCAGA	186
<i>OsBEI</i>	D11082	Os06g0726400	F: TGGCCATGGAAGAGTTGGC R: CAGAAGCAACTGCTCCACC	191
<i>OsBEIIa</i>	AB023498	Os02g0528200	F: GCCAATGCCAGGAAGATGA R: GCGCAACATAGGATGGGTTT	128
<i>OsBEIIb</i>	D16201	Os02g0528200	F: ATGCTAGAGTTTGACCGC	261

			R: AGTGTGATGGATCCTGCC	
<i>OsGBSSI</i>	X62134	Os06g0133000	F: AACGTGGCTGCTCCTTGAA	218
			R: TTGGCAATAAGCCACACACA	
<i>OsGBSSII</i>	AY069940	Os07g0412100	F: AGGCATCGAGGGTGAGGAG	246
			R: CCATCTGGCCCACATCTCTA	
<i>OsISA1</i>	AB093426	Os08g0520900	F: TGCTCAGCTACTCCTCCATCATC	132
			R: AGGACCGCACAACTTCAACATA	
<i>OsISA2</i>	AC132483	Os05g0395300	F: TAGAGGTCCTCTTGAGG	170
			R: AATCAGCTTCTGAGTCACCG	
<i>OsISA3</i>	AP005574	Os09g0468700	F:ACAGCTTGAGACACTGGGTTGAG	100
			R: GCATCAAGAGGACAACCATCTG	
<i>OsPUL</i>	AB012915	Os04g0164900	F: ACCTTTCTTCCATGCTGG	202
			R: CAAAGGTCTGAAAGATGGG	
<i>OsSSI</i>	D16202	Os06g0160700	F: GGGCCTTCATGGATCAACC	279
			R: CCGCTTCAAGCATCCTCATC	
<i>OsSSIIa</i>	AF419099	Os06g0229800	F: GCTTCCGGTTTGTGTGTTCA	54
			R: CTTAATACTCCCTCAACTCCACCAT	
<i>OsSSIIIa</i>	AY100469	Os08g0193900	F: GCCTGCCCTGGACTACATTG	334
			R: GCAAACATATGTACACGGTTCTGG	
<i>OsSSIVa</i>	AY100470	Os01g0721500	F: GGGAGCGGCTCAAACATAAA	237
			R: CCGTGCACTGACTGCAAAAT	
<i>OsFlo2</i>		Os04g0645100	F:CGTGCCACCTGACAACTACTC	100
			R: ATGGTGAGAGAGCATGGTTTCA	
<i>Osdu3</i>		Os02g0612300	F::CTGCGGCTTCTGCTTCATACT	100
			R:AACACGAATTGGGCGATCAT	
<i>Oschalk-5</i>		Os05g0156900	F:GATCTACACCAAGGCGGCC	129
			R:GCGATGTCGCCCACGTTG	
<i>OsC3HC4</i>	LOC_Os11g3 9130.1		F:ATGACCGAAGAGTACGGAATGAC	119
			R:ATCTGTCCACATGCAAAGCG	
<i>Ostdcp</i>	LOC_Os11g3 9140.1		F:CGCGACTACCAGAAGGAAATTG	72
			R:CATCATGGCTTGCATTTGCT	
<i>OsNBS-LRR</i>	LOC_Os11g3 9160.1		F:GAACTGGTATGGTCAAGGCTG	115
			R:ACACGGAGCTCGTTGTAGAAG	

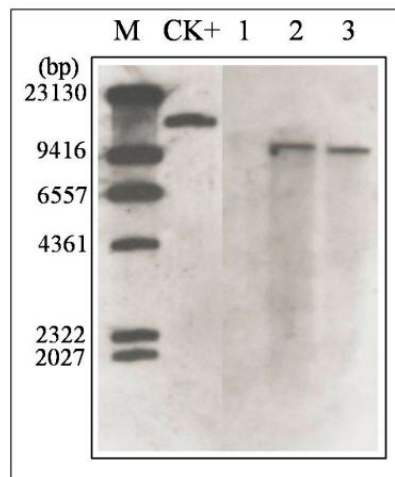


Figure S1. Southern blot analysis of *m-1a* strain.

M, λ /HindIII DNA marker; CK+, Plasmid (pCambia1301); 1: wild-type plants ('Zhonghua 11');
2,3: *m-1a* strain

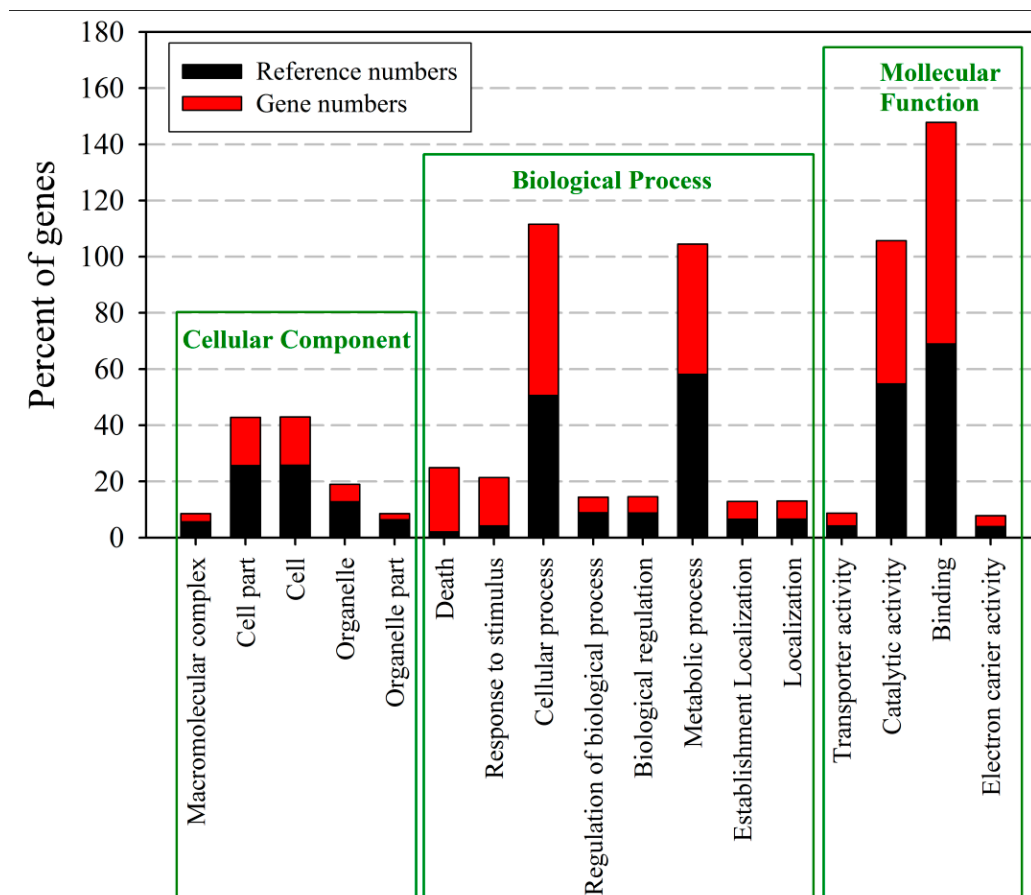


Figure S2. Functional annotation gene GO annotation in Chr 11.

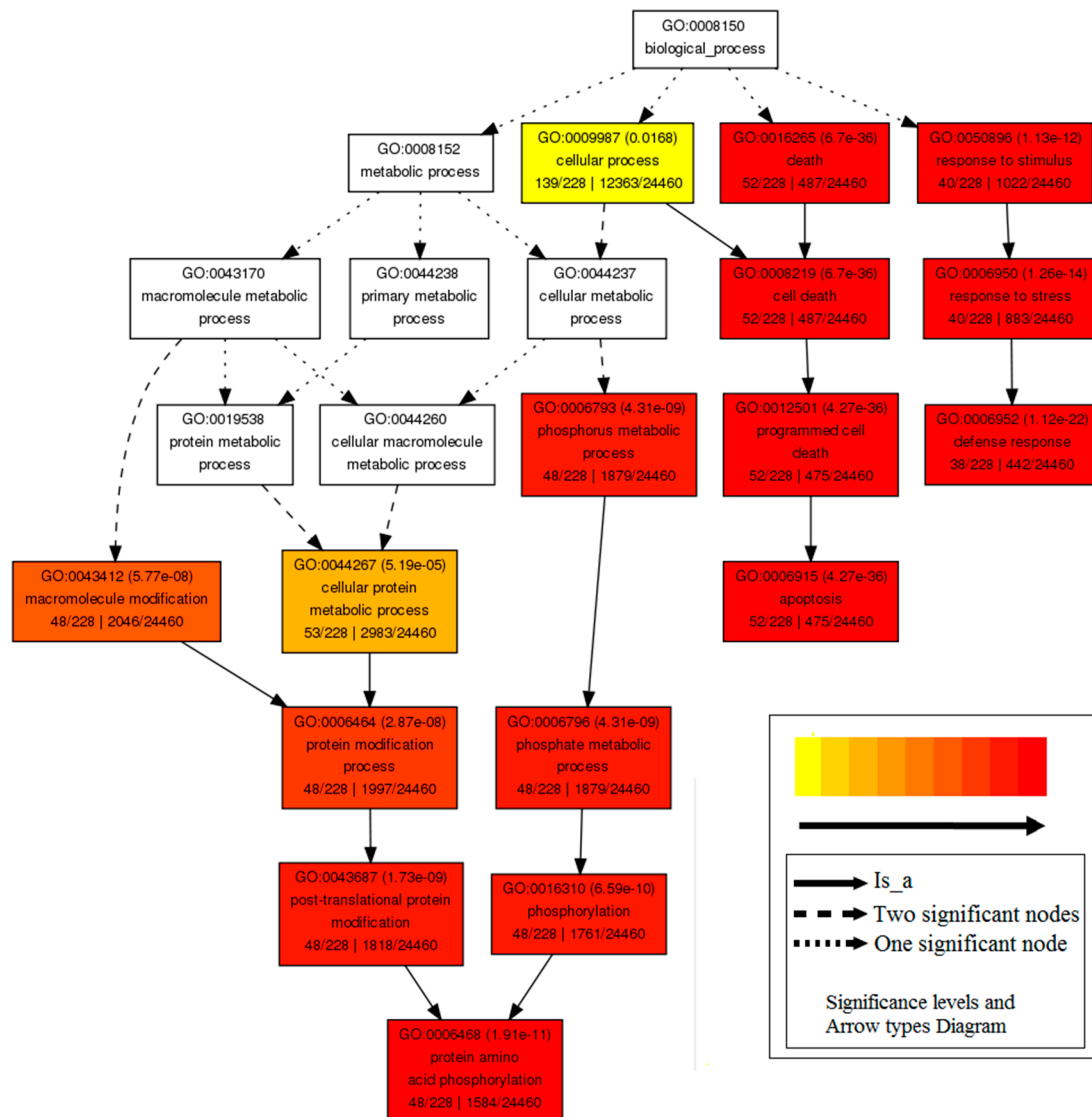


Figure S3. Biological process analysis of downstream genes of *m-1a* insertion site.

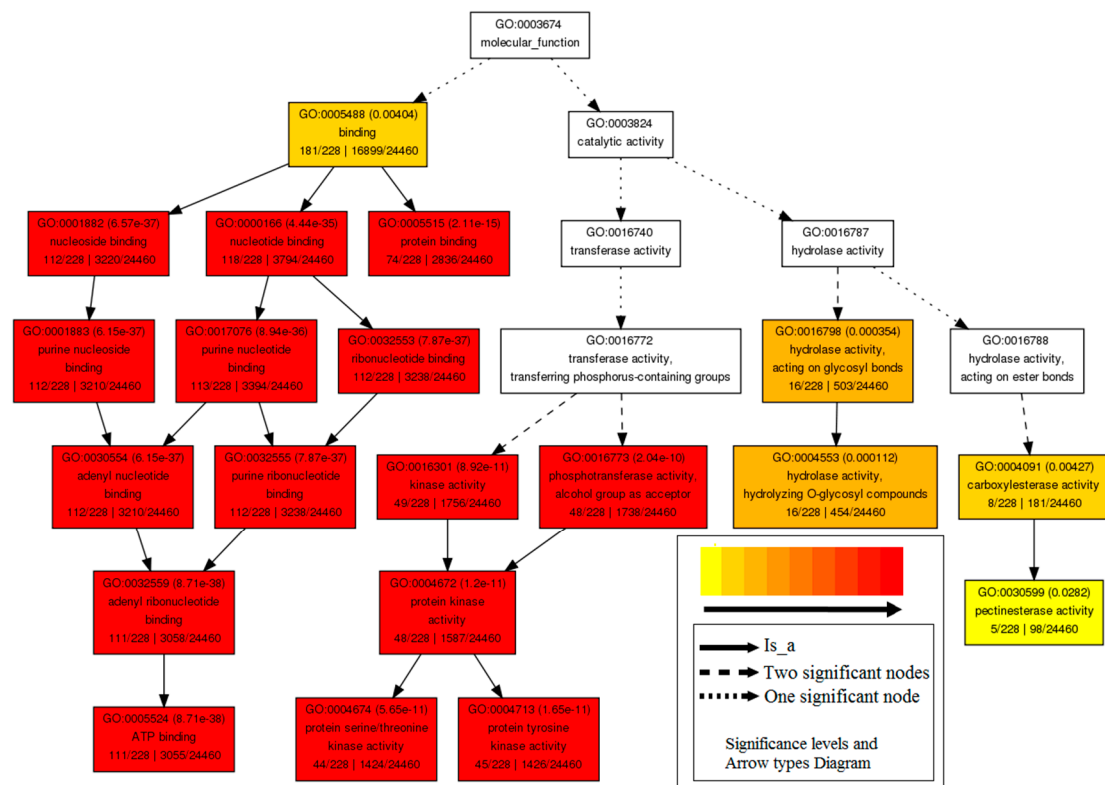


Figure S4. Molecular function analysis of downstream genes of *m-1a* insertion site.