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Supplementary Data

Supplemental Table 1: Primers for plasmid construction

Primer name	Forward primer	Reverse primer	Restriction enzyme	Donor
LOC_Os01g19020	GGCGGTACCATGAGGC TGTCGGTGGCCATCC	GGCACTAGTTTAGTACA AGTGGTTGATGGCG	<i>Kpn</i> , <i>Spe</i> <i>I</i>	YIL106
LOC_Os01g23630	AATGGTACCATGCAGA ACCCTGGCGGCCACCA C	GGCACTAGTTCACCTCGT TATTTGTTGCCAATGT	<i>Kpn</i> , <i>Spe</i> <i>I</i>	YIL106
LOC_Os01g43440	ATGGTACCATGGCGTCA GCTCCGGCCGC	ATACTAGTTCATGGGCA GAAGACGACTC	<i>Kpn</i> , <i>Spe</i> <i>I</i>	Teqing

Supplemental Table 2: The expression profiles of significant differentially expressed genes in the three introgressed segments and the GO annotation of biological process categorization

	Gene ID	Biological process
Up-regulation	LOC_Os01g19020	GO:0006950/response to stress; GO:0008152/metabolic process
	LOC_Os01g19260	GO:0000003/reproduction; GO:0009056/catabolic process; GO:0006139/nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; GO:0009791/post-embryonic development
	LOC_Os01g23630	GO:0006139/nucleobase, nucleoside, nucleotide- and nucleic acid metabolic process; GO:0009058/biosynthetic process
	LOC_Os01g24710	GO:0008150/biological_process
	LOC_Os01g24780	GO:0008152/metabolic process
	LOC_Os01g24790	GO:0008152/metabolic process; GO:0008150/biological_process
	LOC_Os01g25240	GO:0008150/biological_process
	LOC_Os01g25720	GO:0006950/response to stress
	LOC_Os01g25740	GO:0006950/response to stress
	LOC_Os01g26390	GO:0008152/metabolic process; GO:0009987/cellular process; GO:0006464/protein modification process
	LOC_Os01g28450	GO:0006950/response to stress; GO:0009719/response to endogenous stimulus; GO:0009607/response to biotic stimulus; GO:0009991/response to extracellular stimulus
	LOC_Os01g31110	GO:0006139/nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
	LOC_Os01g33684	GO:0006950/response to stress
	LOC_Os01g33784	GO:0008152/metabolic process; GO:0009058/biosynthetic process; GO:0005975/carbohydrate metabolic process; GO:0006091/generation of precursor metabolites and energy; GO:0006629/lipid metabolic process
	LOC_Os03g48750	GO:0008150/biological_process
	LOC_Os12g43380	GO:0009607/response to biotic stimulus
	LOC_Os12g43430	GO:0009607/response to biotic stimulus
Down-regulation	LOC_Os01g23580	GO:0006950/response to stress; GO:0009628/response to abiotic stimulus; GO:0006810/transport; GO:0009987/cellular process; GO:0008152/metabolic process; GO:0007275/multicellular organismal development
	LOC_Os01g24060	GO:0006810/transport; GO:0009987/cellular process
	LOC_Os01g26280	GO:0006464/protein modification process
	LOC_Os01g28300	GO:0008150/biological_process
	LOC_Os01g28690	GO:0006810/transport
	LOC_Os01g31870	GO:0006810/transport; GO:0009987/cellular process;

	GO:0008150/biological_process;
	GO:0019725/cellular homeostasis
LOC_Os01g32120	GO:0006810/transport
LOC_Os01g32170	GO:0008150/biological_process
LOC_Os03g48030	GO:0008150/biological_process
LOC_Os03g48710	GO:0008150/biological_process
LOC_Os03g48970	GO:0007275/multicellular organismal development;
	GO:0009058/biosynthetic process;
	GO:0006139/nucleobase, nucleoside, nucleotide and nucleic acid metabolic process;
	GO:0000003/reproduction;
	GO:0009791/post-embryonic development;
	GO:0009790/embryo development
LOC_Os12g41950	GO:0009908/flower development;
	GO:0009719/response to endogenous stimulus;
	GO:0009058/biosynthetic process;
	GO:0006139/nucleobase, nucleoside, nucleotide and nucleic acid metabolic process
LOC_Os12g42260	GO:0006412/translation;
	GO:0008152/metabolic process
LOC_Os12g43440	GO:0006950/response to stress;
	GO:0009607/response to biotic stimulus;
	GO:0009628/response to abiotic stimulus;
	GO:0008150/biological_process;
	GO:0009058/biosynthetic process;
	GO:0009987/cellular process;
	GO:0019748/secondary metabolic process
LOC_Os12g43450	GO:0006950/response to stress;
	GO:0009607/response to biotic stimulus;
	GO:0009628/response to abiotic stimulus
LOC_Os12g43490	GO:0006950/response to stress;
	GO:0009607/response to biotic stimulus;
	GO:0009628/response to abiotic stimulus
