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Regeneration and *Agrobacterium*-Mediated Transformation of *Japonica* Rice Varieties Developed for a Cold Region

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Electronic Supplementary Material (ESM)

Table S1. N6 macronutrient components

Component	Concentration (mg/l)
KNO_3	2830
$(NH_4)_2SO_4$	463
$CaCl_2$·2H2O	166
$MgSO_4$·$7H_2O$	185
KH_2PO_4	400

Table S2. AAM macronutrient components

Component	Concentration (mg/l)
KCl	2940
$CaCl_2$·$2H_2O$	440
$MgSO_4$·$7H_2O$	370
KH_2PO_4	170

Table S3. L_9 (3^4) table

Test number	Column number			
	1	2	3	4
1	1	1	1	1
2	1	2	2	2
3	1	3	3	3
4	2	1	2	3
5	2	2	3	1
6	2	3	1	2
7	3	1	3	2
8	3	2	1	3
9	3	3	2	1

Table S4. Levels and factors of the orthogonal design

Level	Factor (mg/l)			
	2,4-D	6-BA	KIN	NAA
1	1	2	2	0.02
2	2	4	0	0.20
3	3	6	4	0.50

2,4-D – 2,4-dichlorophenoxyacetic acid; 6-BA – 6-benzyladenine; KIN – kinetin, NAA – α-naphthaleneacetic acid

Table S5. The analysis of variance of the Dongnong 427 orthogonal design

Source of variation	Sum of square	Degree of freedom	Mean square	*F* value	Significance
2,4-D (mg/l)	0.114	2	0.057	13.034	0.000**
6-BA (mg/l)	0.004	2	0.002	0.434	0.654
KIN (mg/l)	0.042	2	0.021	4.819	0.021*
NAA (mg/l)	0.011	2	0.006	1.298	0.297
Error	0.079	18	0.004		
Total	2.235	27			

2,4-D – 2,4-dichlorophenoxyacetic acid; 6-BA – 6-benzyladenine; KIN – kinetin, NAA – α-naphthaleneacetic acid; *, **significant at $P < 0.05$, 0.01, respectively

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Table S6. The analysis of variance of the Longdao 14 orthogonal design

Source of variation	Sum of square	Degree of freedom	Mean square	*F* value	Significance
2,4-D (mg/l)	1.939	2	0.969	639.998	0.000**
6-BA (mg/l)	0.050	2	0.025	16.555	0.000**
KIN (mg/l)	0.000	2	0.000	0.066	0.936
NAA (mg/l)	0.051	2	0.026	16.929	0.000**
Error	0.027	18	0.002		
Total	5.292	27			

2,4-D – 2,4-dichlorophenoxyacetic acid; 6-BA – 6-benzyladenine; KIN – kinetin, NAA – α-naphthaleneacetic acid; *, **significant at $P < 0.05$, 0.01, respectively

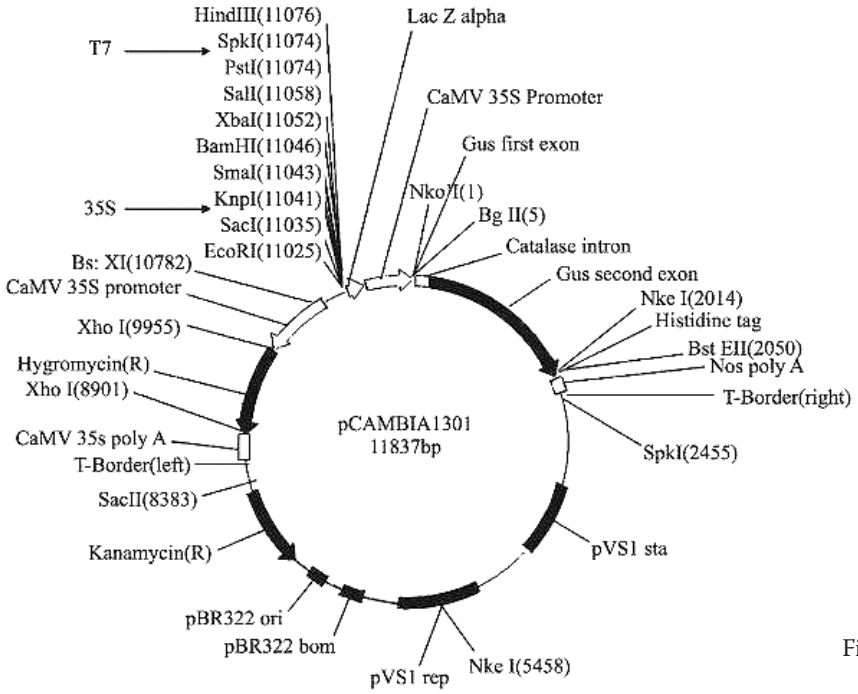

Figure S1. Map of pCAMBIA 1301