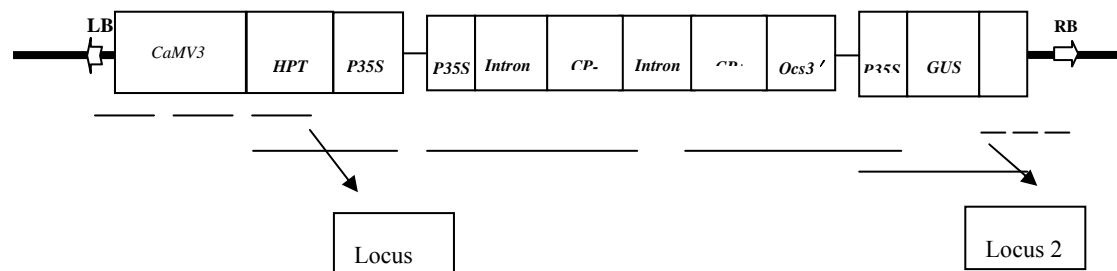


Appendix A Primers designed to amplify the corresponding genes and elements by PCR and LD-PCR in transgenic plants.

Primers name	Sequence of primers
P1 P2	5'-AGACTAGTGGCGCGCCGTTTCAGTCTAGTCATCTGCAC-3' 5'-AGGAGCTCCCTAGGTAGAATGGGTACCAACAAGCCA-3'
SP1 SP2	5'-AGAATCGA AGATGCAAGACGTA-3' 5'- GGTGGAAA ATGTGATATGCA AT-3'
actin-F actin-R	5'-TATGGTCAAGGCTGGGTTCG-3' 5'-CCATGCTCGATGGGGTACTT-3'
35S-F 35S-R	5'-GCTCCTACAAATGCCATCATTGC-3' 5'-GATAGTGGGATTGTGCGTCATCCC-3'
nos-F nos-R	5'-GAATCCTGTTGCCGGTCTTG-3' 5'-TTATCCTAGTTTGCGCGCTA-3'
cp-F cp-R	5'-ATGGGTACCAACAAGCCAGCC-3' 5'-CTAGTCATCTGCACCTTCTGCCTC-3'
hpt-F hpt-R	5'-TACACAGCCATCGGTCCAGA-3' 5'-CGCCGATGGTTTCTACAA-3'
gus-F gus-R	5'-GGAATCCATCGCAGCGTAATG-3' 5'- GCCGACAGCAGCAGTTTCATC -3'
LB-1f CaMV 3'UTR	5'-CTTAATAACACATTGCGGACG-3' 5'-AGGGTTTCGCTCATGTGTTG-3'
nos-F RB-1r	5'-GAATCCTGTTGCCGGTCTTG-3' 5'-ACCCGCCAATATATCCTGTC-3'
hpt-W1 hpt-W2	5'-GTACACAAATCGCCCGCAGAAGC-3' 5'-CAGGGTCGATGCGACGCAATC-3'
nos-W1 nos-W2	5'-CAGGTGACCAGCTCGAATTTCCC-3' 5'-GAATCCTGTTGCCGGTCTTGCGATG-3'
F1 R1	5'-AAATTCCCGTGACTTGCTGAG-3' 5'-AGCAGGTACAATAGGCGTCCG-3'
F2 R2	5'-ATTGGGATGTGACACGGCC-3' 5'-AGGTGCGCTTGTTCTCATGTTG-3'



Appendix B The T-DNA regions of intron-hairpin RNA expression vector pCAMBIA1301+/-CP. LB, left border; HPT, hgromycin phosphotransferase gene; P35S, *Cauliflower mosaic virus* 35S promoter; AdhI, AdhI intron; NCP-, antisense of RSV NCP gene; Intron, Rice waxy-a intron; NCP+, sense of RSV NCP gene; GUS, β -glucuronidase reporter gene; NOS, terminator of nopaline synthase; RB, right border.

Appendix C Incidence of infection when inoculated with *rice stripe virus* for T2 to T5 transgenic plants

T ₂			T ₃			T ₄			T ₅		
lines	Infecte d /Total seedlin gs	Percenta ge of infected (%)	strains	Infected /Total seedlings	Percenta ge of infected (%)	Strains	Infected /Total seedlings	Percenta ge of infected (%)	strains	Infected /Total seedlings	Percenta ge of infected (%)
969A-1	6/64	9.38	969A-1-3	0/56	0	969A-1-3-1	0/15	0	969A-1-3-1-3	0/66	0
			969A-1-13	0/57	0	969A-1-13-1	0/24	0	969A-1-13-1-2 (T4-A1)	0/31	0
			969A-1-17	0/56	0	969A-1-17-1	0/20	0	969A-1-17-1-2	0/49	0
969A-2	0/63	0	969A-2-8	0/51	0	969A-2-8-7	0/27	0	969A-2-8-7-3 (T4-A2)	0/39	0
969A-4	0/62	0	969A-4-1	0/35	0	969A-4-1-3	0/31	0	969A-4-1-3-2	0/31	0

969B-1	0/50	0	969B-1-2	0/44	0	969B-1-2-1	0/21	0	969B-1-2-1-1 (T4-B1)	0/41	0
969B-4	0/47	0	969B-4-4	0/45	0	969B-4-4-8	0/20	0	969B-4-4-8-2	0/38	0
969B-7	0/51	0	969B-7-2	0/23	0	969B-7-2-2	0/37	0	969B-7-2-2-2 (T4-B2)	0/43	0
969B-8	5/49	10.20	969B-8-3	0/31	0	969B-8-3-1	0/29	0	969B-8-3-1-6	0/31	0
969C-9	11/31	35.48	969C-9-1	0/34	0	969C-9-1-9	0/22	0	969C-9-1-9-5 (T4-C1)	0/48	0
969C-10	15/24	62.5	969C-10-1	0/37	0	969C-10-1-3	0/19	0	969C-10-1-3-8 (T4-C2)	0/45	0
969D-2	21/45	46.67	969D-2-2	11/24	45.83						
969D-3	10/16	62.5	969D-3-6	11/17	64.71						
969D-4	10/22	45.45	969D-4-1	3/17	17.65						
969E-5	13/21	61.90%	969E-5-1	8/19	42.11%						
969E-9	9/17	52.94%	969E-9-3	9/21	42.86%						
NC-A	28/53	52.83	NC-A	25/46	54.35	NC-A	15/32	46.88	NC-A	23/51	45.10
NC-B	19/36	52.78	NC-B	21/37	56.76	NC-B	13/30	43.33	NC-B	26/50	52.00
Wuyujin g 3	16/21	76.19	Wuyujin g 3	15/22	68.18	Wuyujing 3	31/45	68.89	Wuyujing 3	21/24	87.50
Zhendao 88	5/36	13.88	Zhendao 88	2/25	8%	Zhendao 88	6/37	16.22	Zhendao 88	6/27	22.20

