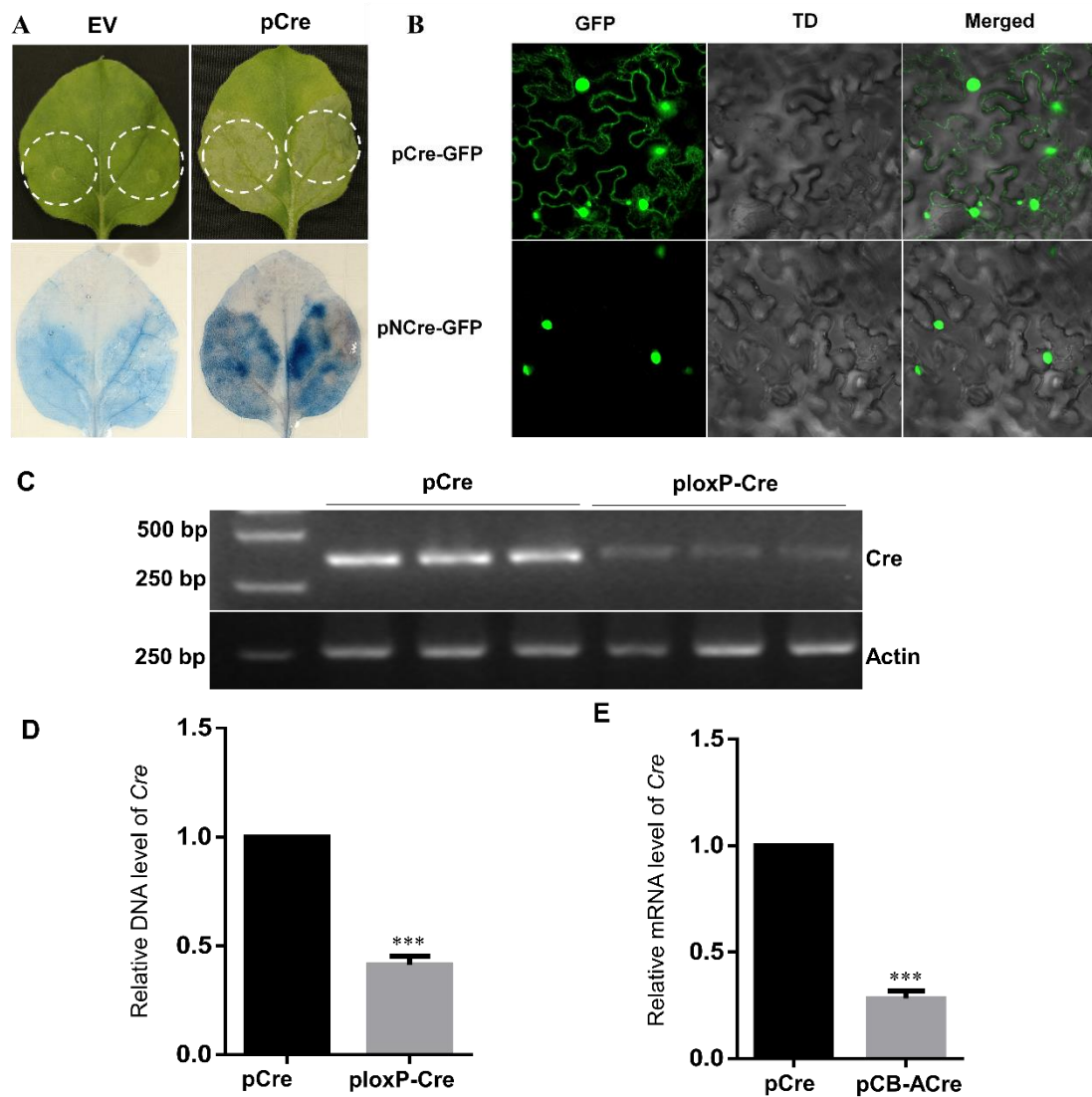


1 **Appendix A** Primers used in this study

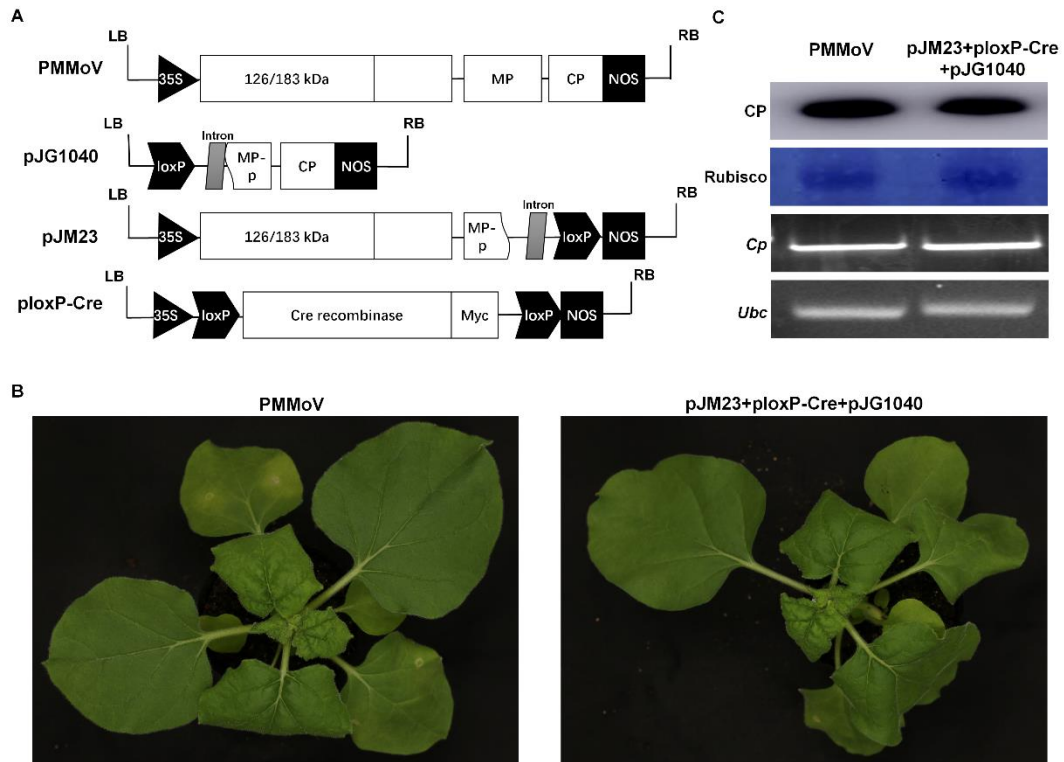
Vector	name	Sequence (5'-3')
pJM23	pJM-1 f	AAGTTCATTTTCATTTGGAGAGGGTAAATTTTTTCACAATTTAACAACA
	pJM-1 r	GAAAAGTTGCAACTCTGTTGAT
	pJM-2 f	ATCAACAGAGTTGCAACTTTTC
	pJM-2 r	GGAGATGCCATGCCGACCCATAACTTCGTATAATGTATGCTATACGAA GTTATAACAAAAATCAAATCTAAATTTGTGTAATTATGAAAATGAAACCTACCTTAT CAAACAGCTTCCTTT
	Vec-pJM f	GGGTCGGCATGGCATCTCC
	Vec-pJM r	CCTCTCCAAATGAAATGAACTT
pJG1024	V-pJG f	GGGTCGGCATGGCATCTCCA
	V-pJG r	ATAATGTATGCTATACGAAGTTATCCGATATTACCCTTTGTTGA
	pJG-1 f	ATAACTTCGTATAGCATAACATTATACGAAGTTATTTTTATTACATGTTT GAACTTCAACAATTTATGACTTTTTTGTTCCTTATTGTTGCAGGTTAGAATTGGGCAGAA CTCG
	pJG-1 r	AAGCTCATCATGTTTGTATAGTT
	pJG-2 f	AACTATACAAACATGATGAGCTTCAGCTGTTGAATTTTGACCTTCTTAA GCTTGCGGGAGACGTCGAGTCCAACCCTGGGCCCATGGCTTACACAGTTTCCAGT
	pJG-2 r	TGGAGATGCCATGCCGACCCGGGCCGCTACCCGCGGTTTCG
pJG1040	pJG1040 f	CCGAGTCTTCTTCGTTTTAACTATGGCTTACACAGTTTCCAGT
	pJG1040 r	CCAACTTATTTACACCATCATGTTTTAAGGAGTTGTAGCCCAGGTGAGT

pJGTZSV	Vec-pTZSV f	ACATGATGGTGTAATAAGTTGG
	Vec-pTZSV r	AGTTAAAACGAAGAAGACTCGG
	pTZSV f	CCGAGTCTTCTTCGTTTTAACTATGTCTAACGTCCGGAGTTTAA
	pTZSV r	CCAACTTATTTACACCATCATGTTTTAAAAGACAGATCATTGCTGC
pCre	Vec-pCV1300 f	GAATTTCCCGATCGTTCAAA
	Vec-pCV1300 r	TCTAGAGTCCCCGTGTTCT
	pCre-1 f	AGAACACGGGGGACTCTAGAGGATCC ATGTCCAATTTACTGACCGTAC
	pCre-1 r	GTCGAGTGAGGAGAAGAGCCGATCGCCATCTTCCAGCAGGC
	pCre-2 f	GGCTCTTCTCCTCACTCGACCAGATCTCGTACGCGTCCCGGGGCGGTGGC TCATCTGGCGGAGGTCTCGACGGGTTAATTAACGGTGAACAAA
	pCre-2 r	TTTGAACGATCGGGGAAATTCGAGCTCCTAAGCGCTACCGTTCAAGT
pNCre	pNCre f	AGAACACGGGGGACTCTAGAGGATCCATGCCCAAGAAGAAGAGGAAGGTG TCCAATTTACTGACCGTAC
pLoxP-Cre	pLoxP f	AGAACACGGGGGACTCTAGAGGATCCATAACTTCGTATAGCATAACATTATACGAAGT TAT ATGTCCAATTTACTGACCGTAC
	pLoxP r	TTTGAACGATCGGGGAAATTCGAGCTCATAACTTCGTATAATGTATGCTATACGAAG TTAT CTAAGCGCTACCGTTCAAGT
pACre	Vec-pACre r	GGCACTGGCCGTCGTTTTACA
	pACre f	TGTAAAACGACGGCCAGTGCCAAGCTTTCGACAAAATTTAGAACGAACTT
pCB-ACre	pCB-Acre-1 f	CAACAAAGGGTAATATCGGTGACAAAATTTAGAACGAACTT
	pCB-Acre-1 r	TTCAAAGCGGAGAGGAAAATAT
	pCB-Acre-2 f	ATATTTTCTCTCCGCTTTGAA ATGTCCAATTTACTGACCGTAC

	pCB-Acre-2 r	TGGAGATGCCATGCCGACCC CTAAGCGCTACCGTTCAAGT
Cre excision	35S-Forward	GAGAACACGGGGGACGAGCTC
	Cre-Reverse	CATAACCAGTGAAACAGCATTGC



Appendix B A, Agrobacterium-mediated transient expression of Cre protein induced necrosis in *N. benthamiana* leaves. B, subcellular localization of pCre-GFP and pNCre-GFP. C, D, analysis of the conditional excision and excision efficacy of Cre at 12 h post inoculation. E, analysis of Cre expression levels by RT-qPCR. Bars represent the standard errors of the means. A two-sample unequal variance directional t-test was used to test the significance of the difference (** $P < 0.001$, $n = 3$).



Appendix C A, schematic diagram of the full-length cDNA clone and modified Cre/loxP system (PMMoV, pJG1040, pJM23, pJG1024). B, symptoms on *N. benthamiana* after agroinfiltration with PMMoV clone (left) or the Cre/loxP system components (right). C, Western blot and RT-PCR confirming CP expression in infiltrated leaves of both treatments.