

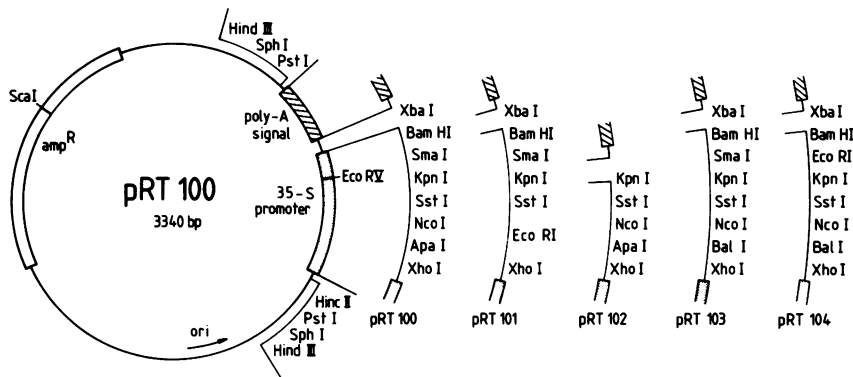
A set of plant expression vectors for transcriptional and translational fusions

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The plasmids pRT100-pRT104, carrying the 35S promoter and the polyadenylation signal of CaMV strain Cabb B-D (corresponding to bp 7016-7434 and 7436-7639 of CM 1841<sup>1</sup>) were constructed in modified polylinkers of pUC18/19<sup>2</sup>. The DNA sequence of pRT100 between its two HindIII sites is shown; capital letters indicate CaMV sequences. TATA-box, ATG, and polyadenylation signal (underlined) as well as the putative transcriptional start (↵) and stop (⇐) are marked (ref.<sup>3</sup>). Transcriptional fusions are possible with pRT101 containing ACctcgagaattcgagctc, whereas pRT100, 102, 103, 104 lead to high expression of proteins initiated at the respective ATG codon (NcoI site). In pRT103 and pRT104 (ccgaattcgg inserted into SmaI of pRT103) the ATG codon is embedded in the consensus sequence for optimal ribosome initiation in eukaryotes<sup>4</sup> (ACctcgagtg~~g~~ccaccat~~g~~g).



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Hind3 SphI PstI HincII
agccttgcacgctcagctcAACATOGTGGAGCACGACACTCTCGTCTACTCCAAAGATATCAAAGATACAGCTCAGAAAGCAGAGGCGCTATTGAGACTTTTCAACAAAGGGTAAATA 120
TCGGGAAACCTCTCGGATTCGATTGCCCAAGCTATCTCTCTCACTTCATCGAAAGGACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTCGGATAAGGAAAGGCTATCGTCCAA 240
GAATGCCCTCTACCCAGACGTGTGCCAAAGATGGACCCCCACCCACGACGAGAACATCGTGGAAAAAGAGAGCTTCCAAACCAGCTCTTCAAAGCAAGTGGATGATGATATCTCCACTGA 360
CGTAAGGGATGACOCACAATCCCACTATCTTCCGAAAGACCCCTCTCTATATAAGGAAGTTTCATTTTCATTTGGAGAGGACctcagagcccatggcagctcggtagccgggacccct 480
ctagagtcCGCAAAATCACCAGTCTCTCTCTACAAATCTATCTCTCTATTTTCTCCAGAATAATGTGTGAGTAGTTCOCAGATAAGGGAATTAGGGTTCTTATAGGTTTCGCTCATGT 600
GTTGACATATAAGAAACCCCTTAGTATGTATTGTATTGTAAATACTCTCTATCAATAAAAATTCTAATTCCTAAAACCAAAATTCAGTgacctcgagcagcagcctt 711
    
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REFERENCES

- <sup>1</sup> Gardner, R.C. et al. (1981) Nucl. Acids Res. 9, 2871-2888
- <sup>2</sup> Yanisch-Perron, C. et al. (1985) Gene 33, 103-119
- <sup>3</sup> Guillely, H., et al. (1982) Cell 30, 763-773
- <sup>4</sup> Kozak, M. (1984) Nucl. Acids Res. 2, 857-872