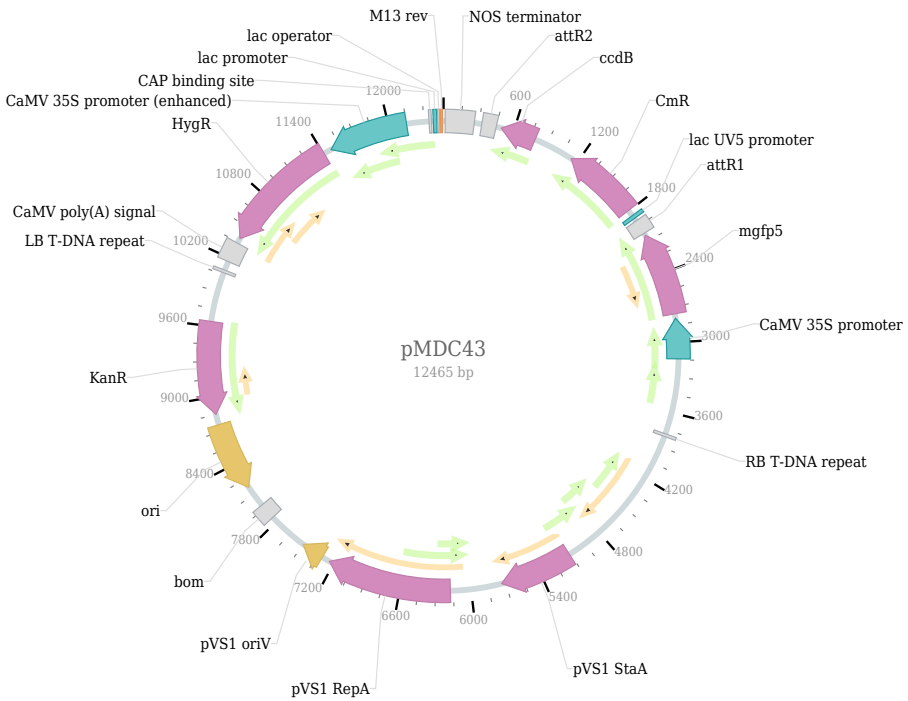
pMDC43

Vector ID	V014606
Antibiotic Resistance	Chloramphenicol, Kanamycin
Length	12465 bp
Vector Type	Gene expression
Host	Plants

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	CaMV35S(enhanced)
Growth Strain(s)	DB3.1
Growth Temperature	37℃
Comment	pMDC43 is a Gateway-compatible binary vector derived from the pCAMBIA backbone, designed for C-terminal GFP6 (His-tagged) fusion of target proteins in plants. It contains an attR1–ccdB–attR2 Gateway cassette (cassette C1), enabling directional LR cloning of entry clones carrying genes without a stop codon. Expression is driven by a dual CaMV 35S promoter, and hygromycin resistance provides plant selection.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.