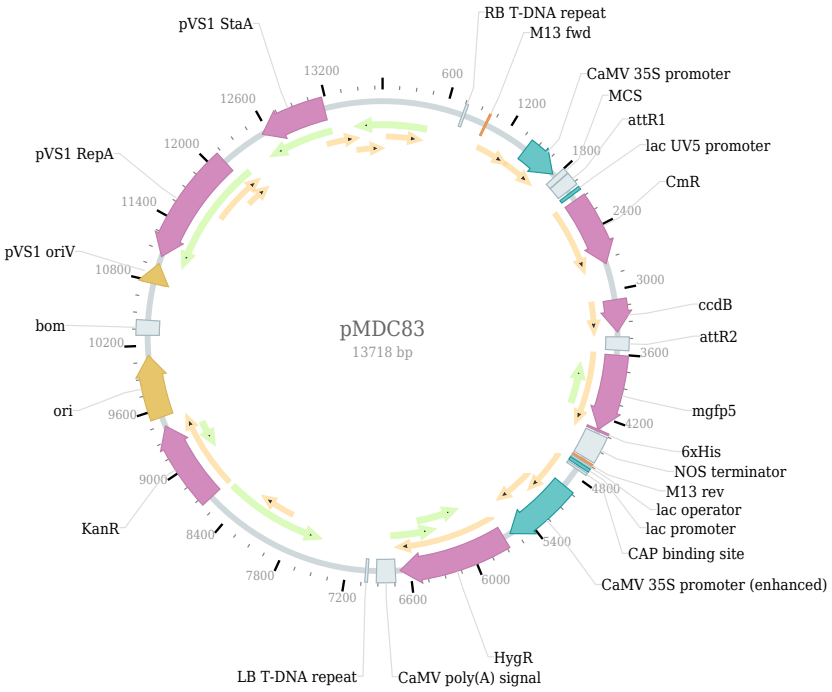
# pMDC83

| | |
|---|---|
| **Vector ID** | V013531 |
| **Antibiotic Resistance** | Chloramphenicol, Kanamycin |
| **Length** | 13718 bp |
| **Vector Type** | Protein expression |
| **Host** | Plants |

## Product Information

| | |
|---|---|
| **Replication Origin** | ori |
| **Selection Marker** | Hyg |
| **Promoter** | CaMV 35S (enhanced) |
| **Growth Strain(s)** | DB3.1 |
| **Growth Temperature** | 37℃ |
| **Comment** | pMDC83 is a Gateway-compatible Agrobacterium binary T-DNA destination vector derived from pCambia, designed for N-terminal GFP6 (with His-tag) protein fusions to study subcellular localization in plants. Three reading-frame variants (pMDC83/84/85) accommodate any gene insert lacking a native stop codon. A Gateway cassette flanked by AscI and PacI sites enables directional LR recombination for efficient cloning, while a CaMV 35S-driven hygromycin marker facilitates plant selection during Agrobacterium-mediated transformation. |

## 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 ℃.