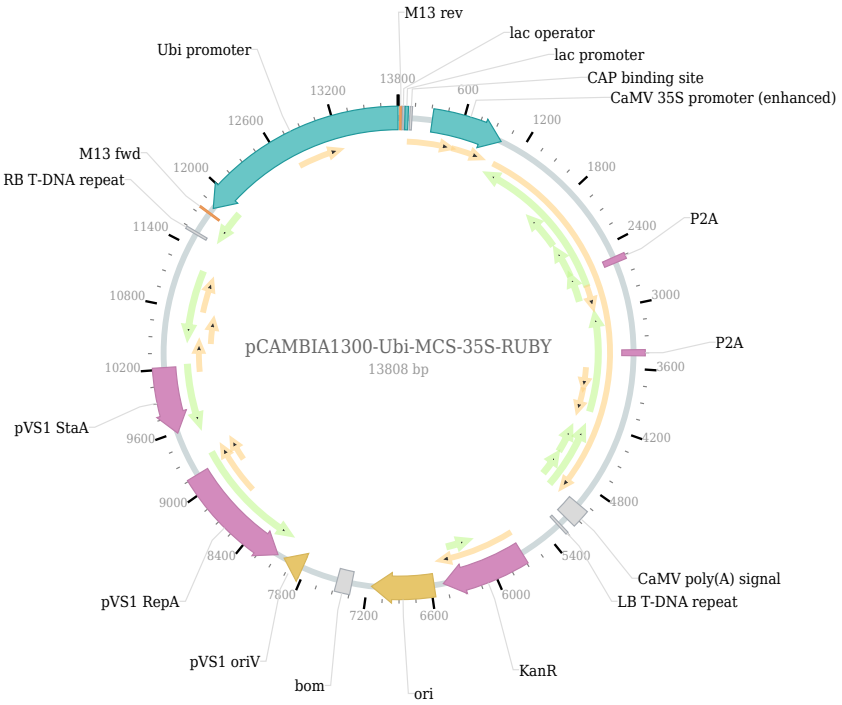
pCAMBIA1300-Ubi-MCS-35S-RUBY

Vector ID	V038503
Antibiotic Resistance	Kanamycin
Length	13808 bp
Vector Type	Protein expression
Host	Plants

Product Information

Replication Origin	pVS1
Copy Number	High
Promoter	UBI
Growth Strain(s)	DH10B
Growth Temperature	37℃
Expression Method	Transient
Comment	pCAMBIA1300-Ubi-MCS-35S-RUBY is a pCAMBIA1300-derived Agrobacterium binary vector (13,808 bp) for plant transformation. Its T-DNA contains a maize Ubi-1 promoter–MCS expression cassette for gene overexpression, and a CaMV 35S–RUBY visual reporter. RUBY encodes CYP76AD1, DODA, and GT linked by 2A peptides, producing red betanin for marker-free, naked-eye selection in planta.

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 ℃.