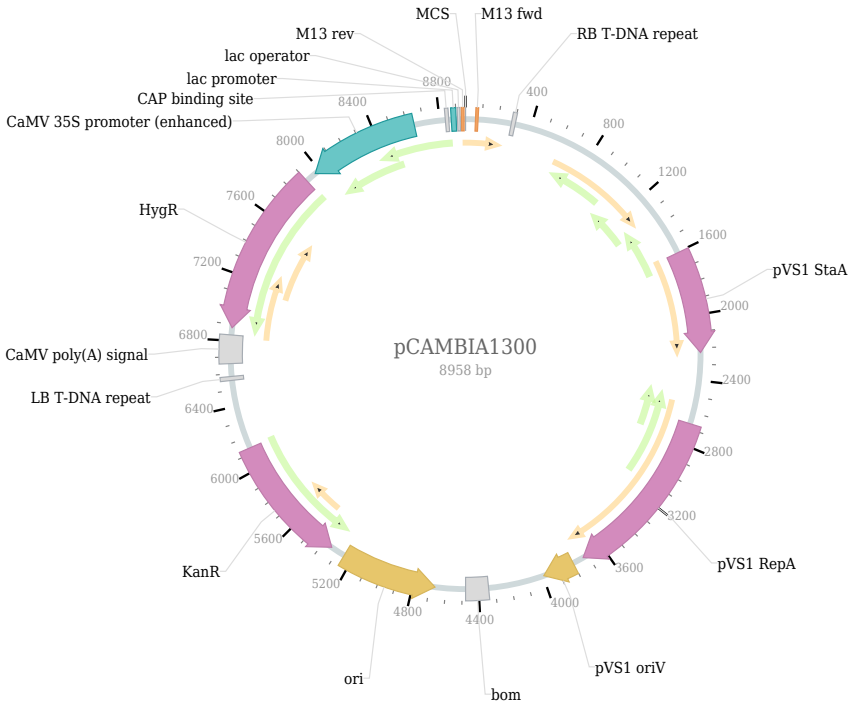
pCAMBIA1300

Vector ID	V008765
Antibiotic Resistance	Kanamycin
Length	8958 bp
Vector Type	Binary vector
Host	Plants

Product Information

Replication Origin	ori
Source/Author	Hajdukiewicz P, Svab Z, Maliga P.
Promoter	CaMV 35S (enhanced)
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pCAMBIA1300 is a plant binary expression vector designed for Agrobacterium-mediated plant transformation. It contains a kanamycin resistance gene for bacterial selection in E. coliand a hygromycin B resistance gene for selecting transformed plant cells. The vector features a pVS1 origin of replication for high stability in Agrobacteriumand a multiple cloning site within a lacZα fragment for blue-white screening of recombinant clones in bacteria. Its high copy number in E. colifacilitates ample DNA yield for genetic engineering applications in plants.

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 ℃.