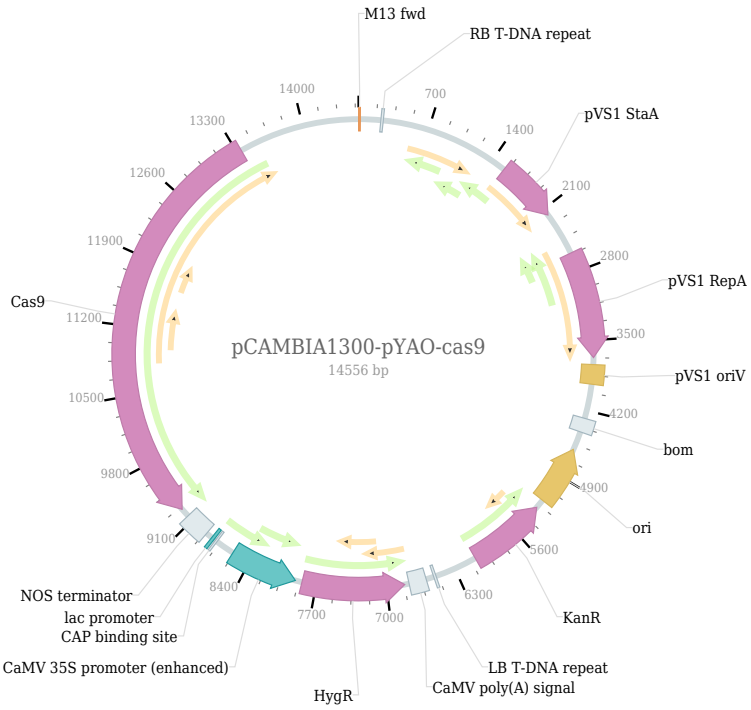
pCAMBIA1300-pYAO-cas9

Vector ID	V013339
Antibiotic Resistance	Kanamycin
Length	14556 bp
Vector Type	Gene knockout
Host	Plants

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	CaMV 35S (enhanced)
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The plasmid vector pCAMBIA1300-pYAO-cas9 is a binary vector designed for CRISPR/Cas9-mediated gene knockout in plants. It is approximately 14.6 kb in size and features a plant-optimized Cas9 gene driven by an enhanced CaMV 35S promoter. The vector contains T-DNA borders for Agrobacterium-mediated plant transformation, with kanamycin resistance for bacterial selection and hygromycin resistance (Hyg) for selecting transformed plants. It has been successfully used in research to edit genes in species like Chinese kale and tobacco.

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 ℃.