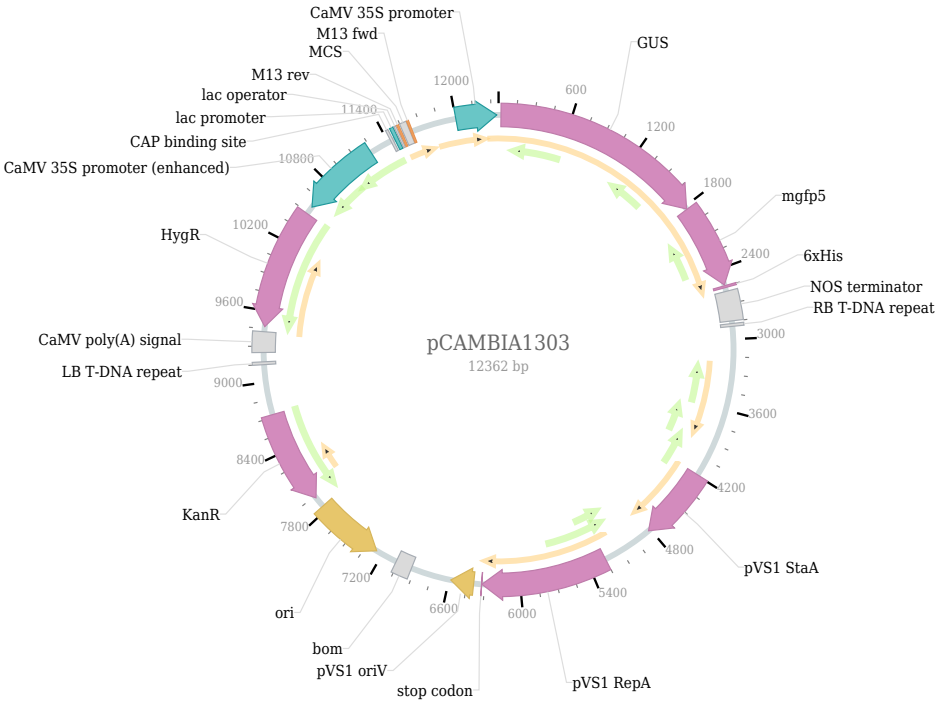
pCAMBIA1303

Vector ID	V008763
Antibiotic Resistance	Kanamycin
Length	12362 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 Temperature	37℃
Comment	pCAMBIA1303 is a plant transformation vector widely used in plant biology. It carries a broad-host-range origin of replication and kanamycin resistance gene for selection in bacteria. It contains a multiple cloning site for cloning the gene of interest and a strong constitutive promoter, such as the CaMV 35S promoter, for high expression of the inserted gene in plants. pCAMBIA1303 is often employed in Agrobacterium-mediated gene transfer methods for generating transgenic plants with desired traits or for studying gene function 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 ℃.