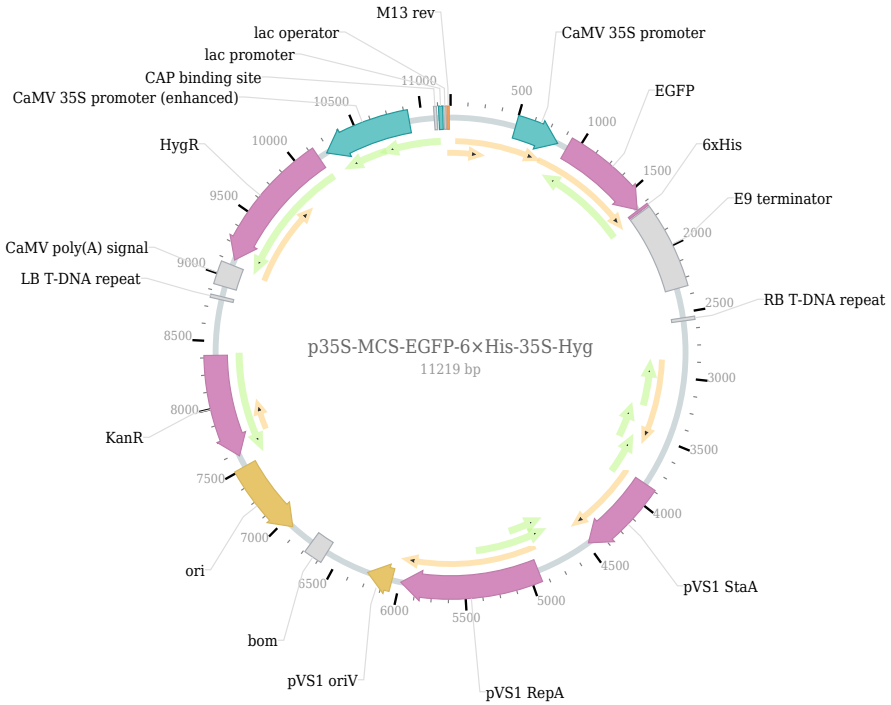
p35S-MCS-EGFP-6×His-35S-Hyg

Vector ID	V014076
Antibiotic Resistance	Kanamycin
Length	11219 bp
Vector Type	Protein expression
Host	Plants

Product Information

Replication Origin	ori
Selection Marker	Hyg
Promoter	CaMV35S(long)
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	p35S-MCS-EGFP-6×His-35S-Hyg is a versatile plant binary vector designed for Agrobacterium-mediated transformation, allowing flexible directional cloning of a gene of interest into the MCS for expression with a C-terminal EGFP fluorescent tag and a 6×His epitope tag for convenient live-cell imaging and protein purification. This vector features dual CaMV 35S promoters to drive robust transgene expression and the HygR (hygromycin resistance) marker for efficient selection of transformed plant tissues, with expression terminated by the E9 terminator. Flanked by left (LB) and right (RB) T-DNA repeat borders for precise genomic integration, the backbone also carries a KanR marker, an ori, and pVS1 replication elements (StaA, RepA, oriV, bom) to support stable maintenance and propagation in both E. coli and Agrobacterium.

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 ℃.