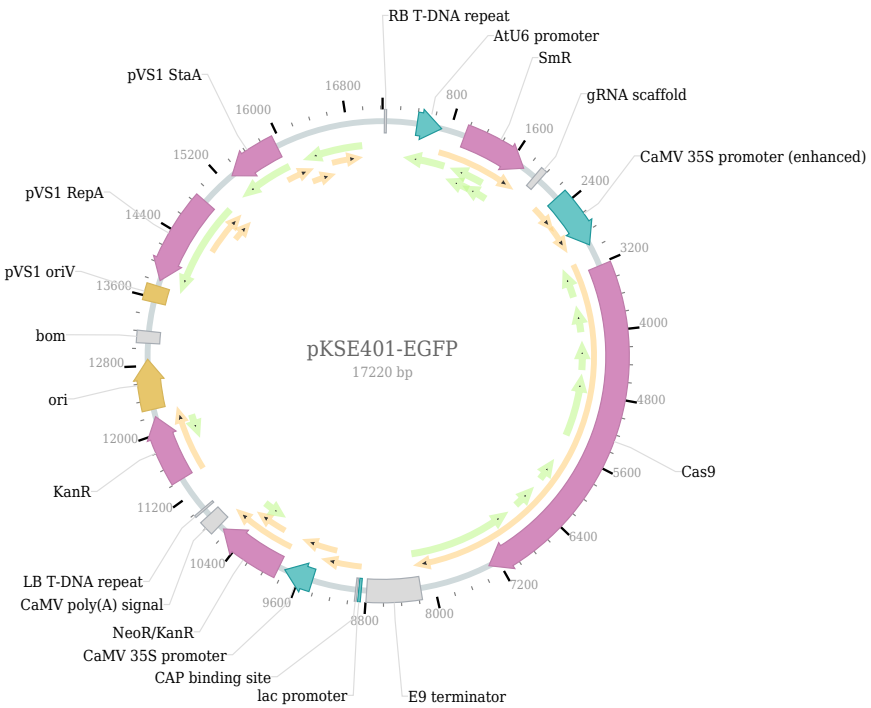
pKSE401-EGFP

Vector ID	V017541
Antibiotic Resistance	Kanamycin
Length	17220 bp
Vector Type	Gene-editing vector
Host	Plants

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Copy Number	Low
Promoter	AtU6-26p
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	This is a 17220 bp plant CRISPR/Cas9 expression vector, pKSE401-EGFP. It is designed for genome editing in plants, utilizing the enhanced CaMV 35S promoter to drive the expression of the Cas9 nuclease and a gRNA scaffold. The vector facilitates easy visual screening of successfully transformed cells via the co-expressed EGFP reporter gene. It contains the RB/LB T-DNA repeats for targeted integration into the plant genome, as well as the pVS1 origin and KanR/NeoR genes for bacterial propagation and selection.

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 ℃.