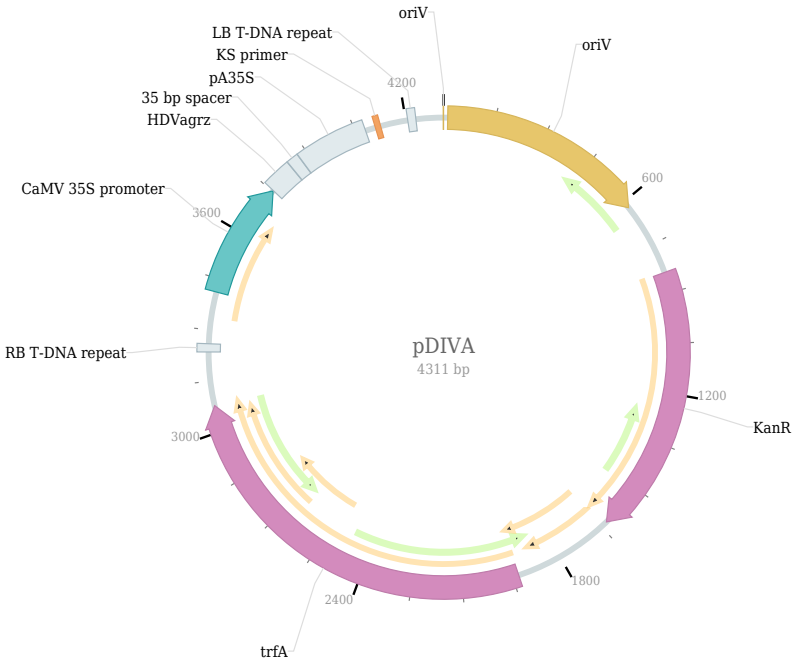
pDIVA

Vector ID	V007992
Antibiotic Resistance	Kanamycin
Length	4311 bp
Vector Type	Binary vector
Host	Plants

Product Information

Replication Origin	oriV
Source/Author	Laufer M, Mohammad H, Varrelmann M, Maiss E.
Copy Number	Low copy number
Promoter	CaMV 35S
Growth Strain(s)	EPI300
Growth Temperature	37℃
Comment	pDIVA contains replicon oriV and trfA element. pDIVA is inducible with 0.04% Arabinose or 1x CopyControl Induction Solution. An EPI400/EPI300 strain is recommended. The protocol is as below: a) Add 4 ml LB media into each test tube. Inoculate each tube with bacterial culture with antibiotic at the proper concentration. b) Incubate the tubes at 37°C, shaking overnight. c) Dilute the starting culture (from step b) 1:10 into antibiotic-supplemented fresh media. d) Supplement induction solution with a ratio of 1:1000, and grow the culture at 37°C for 4 h with vigorous shaking (approx. 250 rpm). e) Isolate DNA from the induced culture cells as per the protocol provided.

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 ℃.