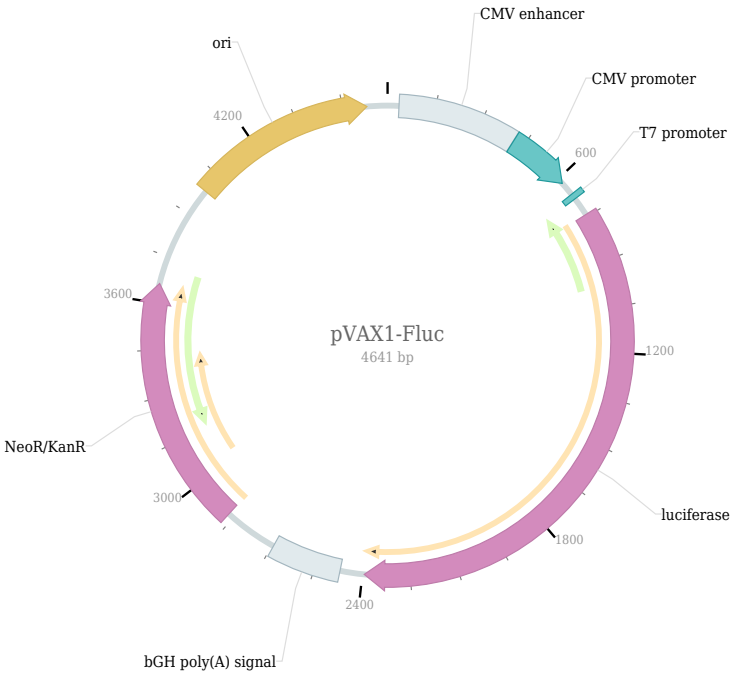
pVAX1-Fluc

Vector ID	V045313
Antibiotic Resistance	Kanamycin
Length	4641 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Fluc
Copy Number	High
Promoter	CMV
5' Primer	CMV-F
Growth Strain(s)	DH10B
Growth Temperature	37℃
Expression Method	Transient
Comment	pVAX1-Fluc is a mammalian expression construct in which the firefly luciferase cDNA is cloned into the pVAX1 backbone, a vector designed for DNA vaccine development. Expression is driven by a CMV immediate-early promoter/enhancer, with a bGH polyadenylation signal. Selection uses kanamycin. The enzyme catalyzes ATP-dependent D-luciferin oxidation, enabling sensitive quantification and in vivo bioluminescence imaging.

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 ℃.