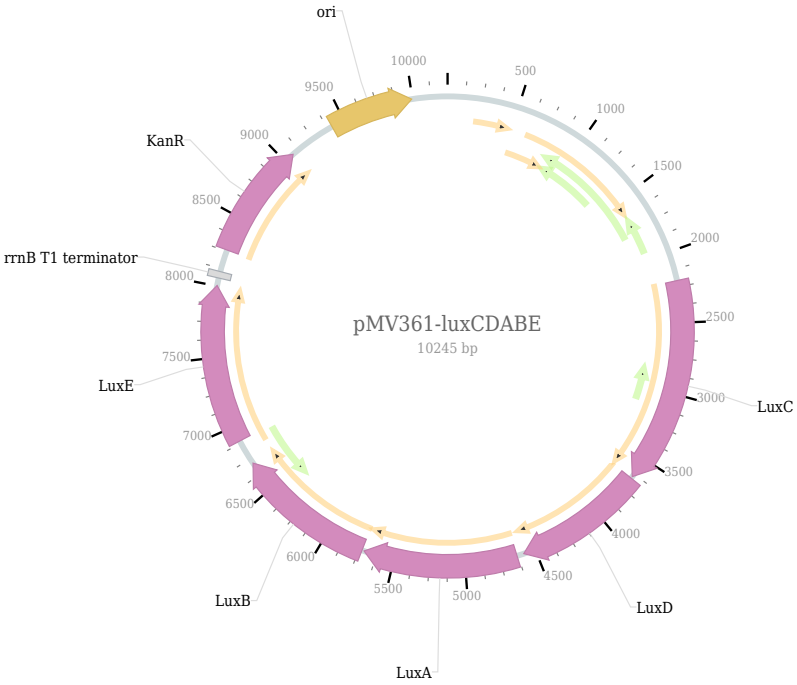
pMV361-luxCDABE

Vector ID	V038538
Antibiotic Resistance	Kanamycin
Length	10245 bp
Vector Type	Protein expression
Host	Mycobacterium

Product Information

Replication Origin	ori
Copy Number	High
Promoter	hsp60
Growth Strain(s)	DH5a
Growth Temperature	37℃
Expression Method	Transient
Comment	pMV361-luxCDABE (10.2 kb) is a mycobacterial integrative expression vector for real-time bioluminescence imaging. It carries the hsp60 promoter driving the full luxCDABE operon from Photorhabdus luminescens, enabling autonomous production of luciferase and its aldehyde substrate without exogenous addition. The vector integrates into the mycobacterial chromosome via the integrase gene and is selectable with KanR (kanamycin). It contains a pUC ori for high-copy propagation in E. coli and rrnB terminators for transcriptional stability.

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 ℃.