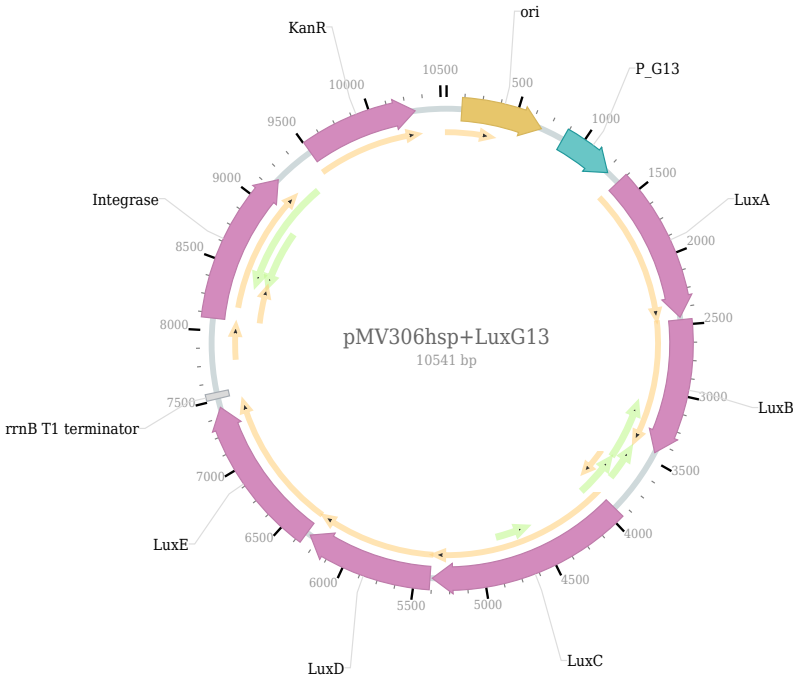
pMV306hsp+LuxG13

载体编号 Vector ID	V017191
抗性 Antibiotic Resistance	Kanamycin
长度 Length	10541 bp
载体类型 Vector Type	Protein expression
宿主 Host	E. coli

产品信息

复制子 Replication Origin	ori
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pMV306hsp+LuxG13 is an integrating mycobacterial plasmid carrying the full luxABCDE operon for self-luminescence. It inserts the strong P_G13 promoter upstream of luxC to boost substrate synthesis and raise luminescent signal 6-fold. This kanamycin-resistant vector stably generates auto-bioluminescent M. smegmatis and M. tuberculosis without external substrate supplementation. It enables non-invasive in vivo lung bioluminescence imaging and high-throughput anti-mycobacterial drug screening.

质粒图谱



复溶方法

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 ℃.