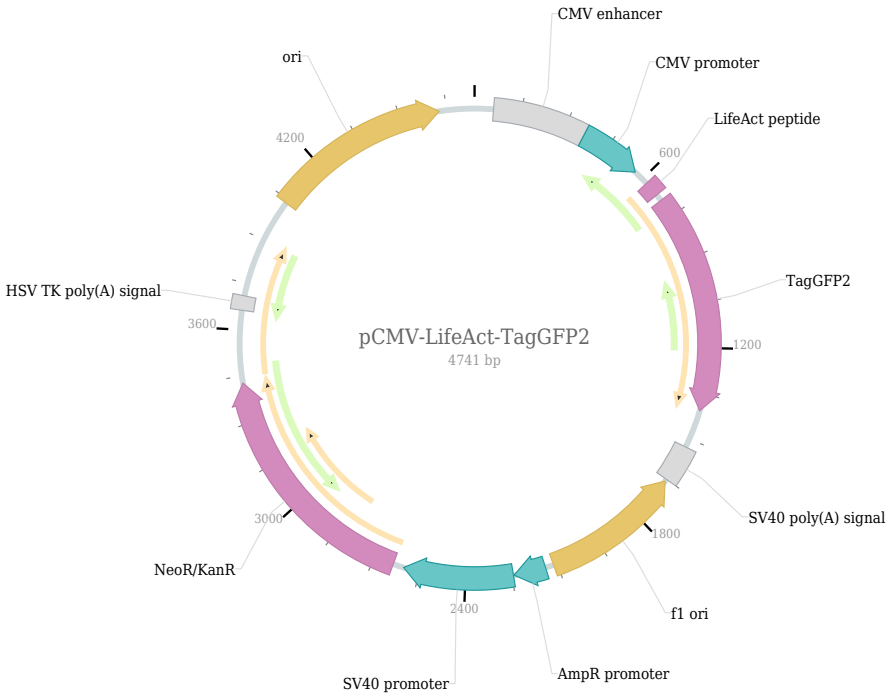
pCMV-LifeAct-TagGFP2

载体编号 Vector ID	V015179
抗性 Antibiotic Resistance	Kanamycin
长度 Length	4741 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Neo/G418
启动子 Promoter	CMV
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pCMV-LifeAct-TagGFP2 is a mammalian expression vector with CMV promoter, LifeAct peptide fused with TagGFP2 green fluorescent protein for specific labeling of F-actin, for live-cell actin cytoskeleton imaging and dynamics studies. LifeAct is a 17-amino-acid peptide(MGVADLIKKFESISKEE) derived from yeast Abp140, which preferentially binds filamentous actin (F-actin) over G-actin. Genetically fused to fluorescent proteins (e.g., tdTomato, GFP), it enables live-cell visualization of actin cytoskeleton dynamics. Its small size minimizes cytoskeleton perturbation, though high expression may induce artifacts.

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 ℃.