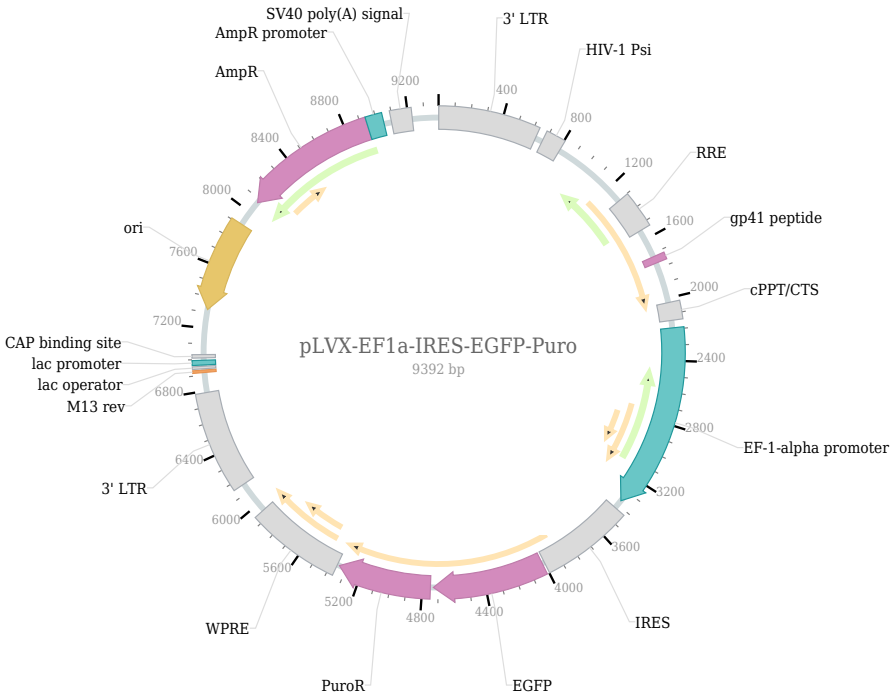
pLVX-EF1a-IRES-EGFP-Puro

载体编号 Vector ID	V013358
抗性 Antibiotic Resistance	Ampicillin
长度 Length	9392 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells, Lentivirus

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Puro
启动子 Promoter	EF-1α
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	37℃
备注 Comment	The plasmid vector pLVX-EF1α-IRES-EGFP-Puro is an HIV-1-based lentiviral expression vector. It is designed for high-level, constitutive protein expression in mammalian cells. The EF1α promoter drives a bicistronic transcript where the gene of interest, cloned into the multiple cloning site, and the enhanced green fluorescent protein (EGFP) are co-expressed via an internal ribosome entry site (IRES). The transcript also includes a puromycin resistance gene (PuroR) for selection. Key elements like WPRE and cPPT/CTS enhance viral titer and transduction efficiency. The vector includes an ampicillin resistance gene for bacterial propagation.

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 ℃.