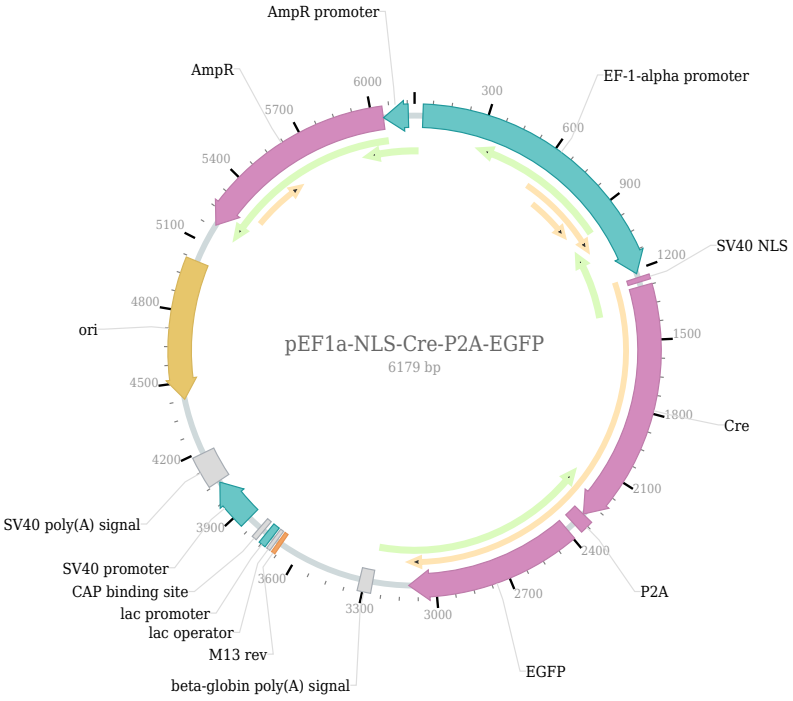
pEF1a-NLS-Cre-P2A-EGFP

载体编号 Vector ID	V045638
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6179 bp
载体类型 Vector Type	Gene-editing, Subcellular localization
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	EGFP
拷贝数 Copy Number	High
启动子 Promoter	EF1a
5' 引物 5' Primer	EF1a-R-F
培养菌株 Growth Strain(s)	DH5a
培养温度 Growth Temperature	37℃
表达方式 Expression Method	Transient
备注 Comment	pEF1a-NLS-Cre-P2A-EGFP is designed for mammalian expression of Cre recombinase with a green fluorescent readout. Key features include the EF-1α promoter for strong constitutive expression, an NLS (Nuclear Localization Signal) for targeting the Cre protein to the nucleus, and a P2A ribosomal skipping sequence. The P2A allows separate translation of the EGFP reporter, enabling visualization of transfected or transduced cells without directly fusing GFP to the Cre enzyme.

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 ℃.