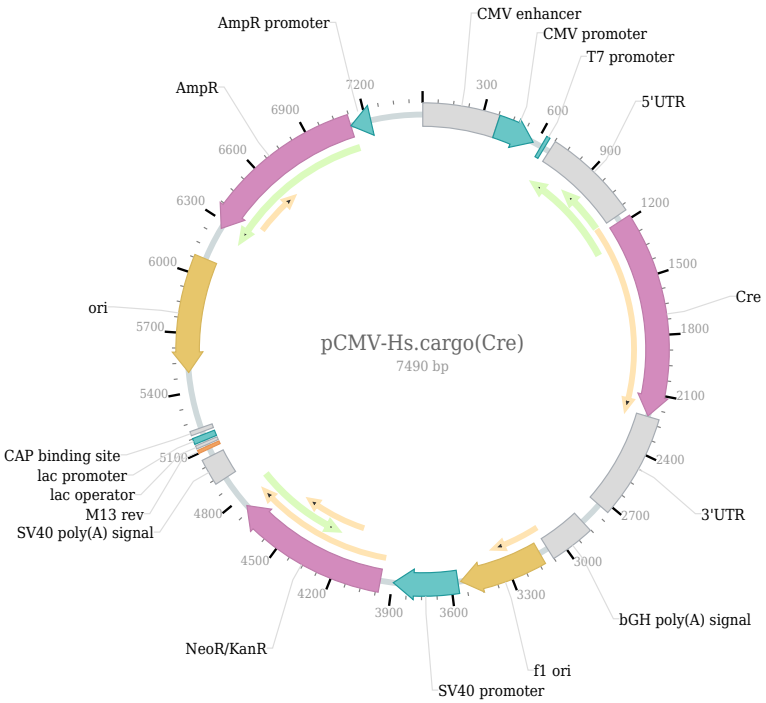
pCMV-Hs.cargo(Cre)

载体编号 Vector ID	V014673
抗性 Antibiotic Resistance	Ampicillin
长度 Length	7490 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	SV40
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pCMV-Hs.cargo(Cre) is a CMV-driven reporter plasmid for human SEND delivery system developed in Zhang Lab's 2021 Science work. It encodes Cre recombinase mRNA flanked by minimal human PEG10 5'UTR and proximal 500 bp 3'UTR, the specific packaging signals recognized by HsPEG10 capsid protein. Co-transfected with optimized rHsPEG10 and fusogen plasmids, it produces VLPs loaded with functional Cre mRNA. After target cell transduction, translated Cre triggers loxP-dependent fluorescent reporter expression to quantify intercellular mRNA delivery efficiency. This modular plasmid can be easily reconstructed to deliver mRNAs or CRISPR effectors instead of Cre.

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 ℃.