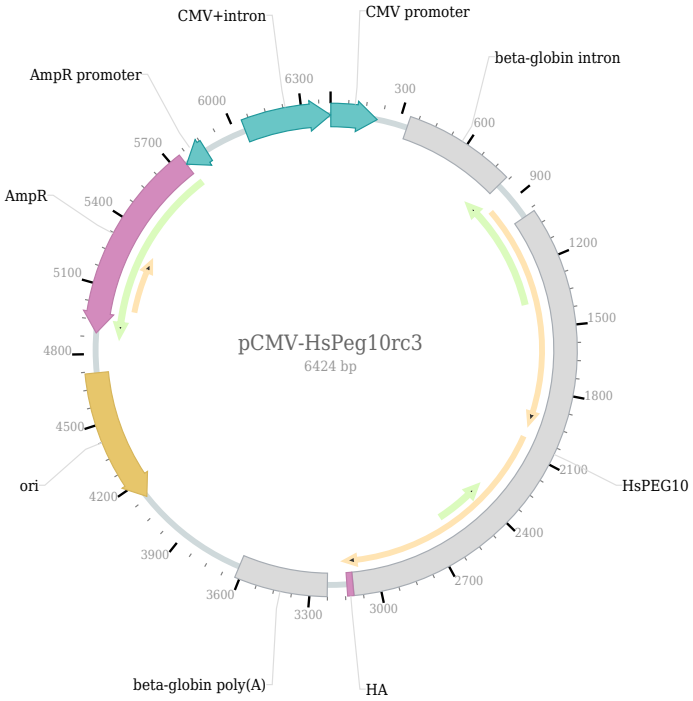
pCMV-HsPeg10rc3

载体编号 Vector ID	V017082
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6424 bp
载体类型 Vector Type	Protein expression
宿主 Host	Mammalian cells

产品信息

复制子 Replication Origin	ori
启动子 Promoter	CMV
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	37℃
备注 Comment	pCMV-HsPeg10rc3 is a CMV-driven mammalian expression plasmid from Feng Zhang's lab for human SEND mRNA delivery system. It encodes recoded human PEG10 (rHsPEG10), with internal cis RNA-binding motifs removed to boost cargo mRNA packaging efficiency into virus-like particles (VLPs). Co-transfected with fusogen plasmids (VSVg or SYNA) and Hs.cargo(RNA) constructs, it produces functional human SEND VLPs for intercellular mRNA transfer. The recoded PEG10 self-assembles into capsids and specifically recognizes mRNAs tagged with human PEG10 UTR packaging signals. This core vector enables low-immunogenic mRNA and CRISPR effector delivery in human cell lines as validated in the 2021 Science SEND study.

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 ℃.