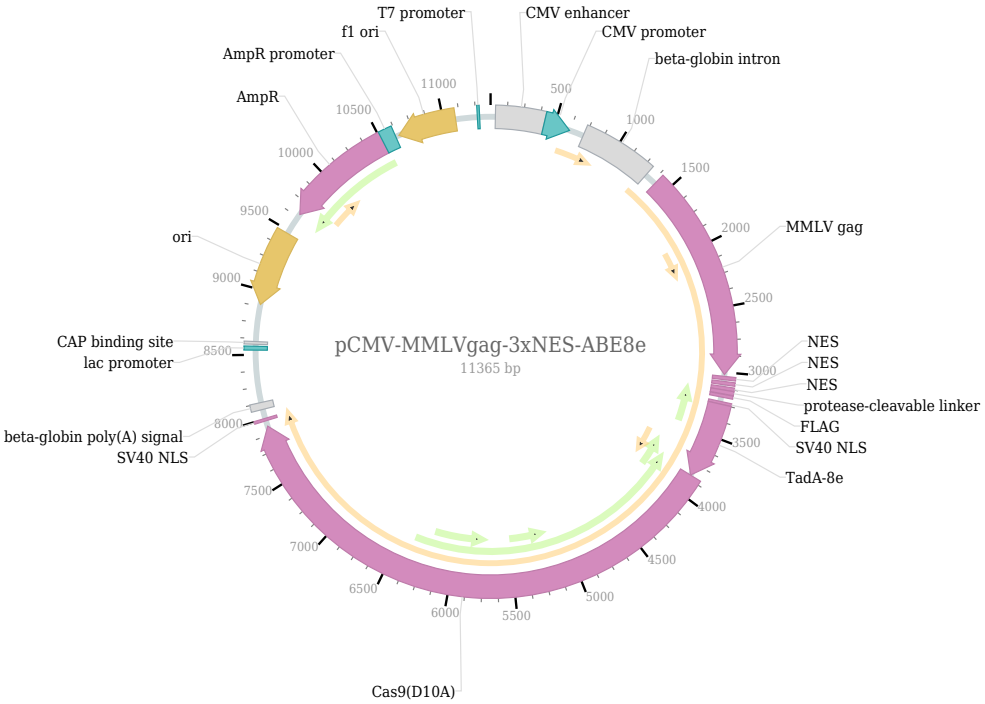
pCMV-MMLVgag-3xNES-ABE8e

载体编号 Vector ID	V017285
抗性 Antibiotic Resistance	Ampicillin
长度 Length	11365 bp
载体类型 Vector Type	Gene 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)	DH5a
培养温度 Growth Temperature	37℃
备注 Comment	This plasmid pCMV-MMLVgag-3xNES-ABE8e is a core construct for generating v4 BE-eVLPs in Liu Lab's 2022 Cell study. It drives expression of a fusion protein consisting of MMLV Gag, triple nuclear export signals, a protease-cleavable linker and full ABE8e. ABE8e comprises evolved TadA-8e deaminase fused to nCas9 (D10A nickase) flanked by nuclear localization signals. The 3×NES retains fusion proteins in producer cell cytoplasm to boost RNP packaging into DNA-free virus-like particles. After VLP maturation, protease cleavage separates Gag-NES from functional ABE8e for safe, low-off-target in vivo base editing.

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 ℃.