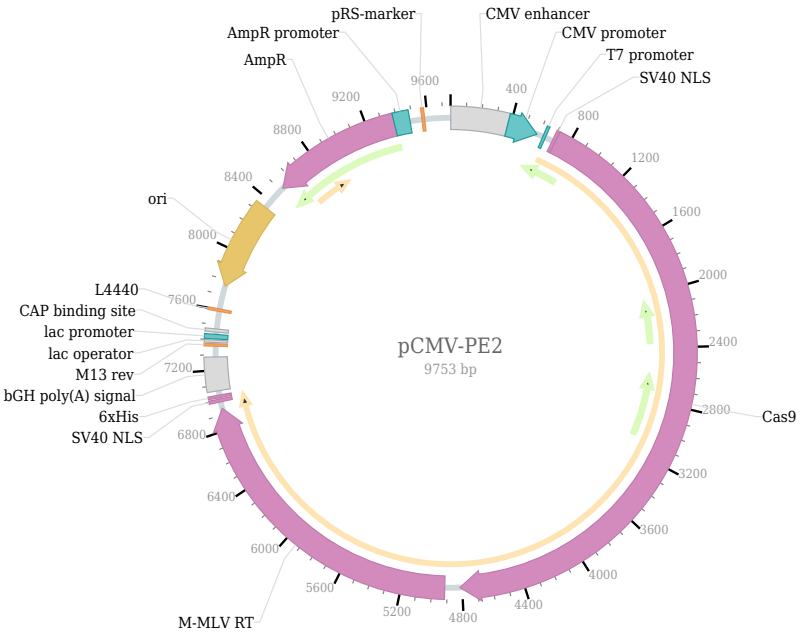
pCMV-PE2

载体编号 Vector ID	V011280
抗性 Antibiotic Resistance	Ampicillin
长度 Length	9753 bp
载体类型 Vector Type	Mammalian Expression

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	CMV
克隆方法 Cloning Method	Ligation Independent Cloning
5' 引物 5' Primer	T7-forward
3' 引物 3' Primer	BGH-reverse
培养菌株 Growth Strain(s)	DH10b
培养温度 Growth Temperature	37℃
备注 Comment	pCMV-PE2 is a prime editor expression plasmid driven by CMV promoter from David Liu's lab. It encodes SpCas9 H840A nickase fused to an engineered pentamutant M-MLV reverse transcriptase for DSB-free genome editing. Co-transfected with pegRNA, it performs all 12 base conversions, precise insertions and deletions without donor DNA. Combined with a strand-nicking sgRNA, it forms PE3/PE3b systems for much higher editing efficiency with minimal indel byproducts.

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 ℃.