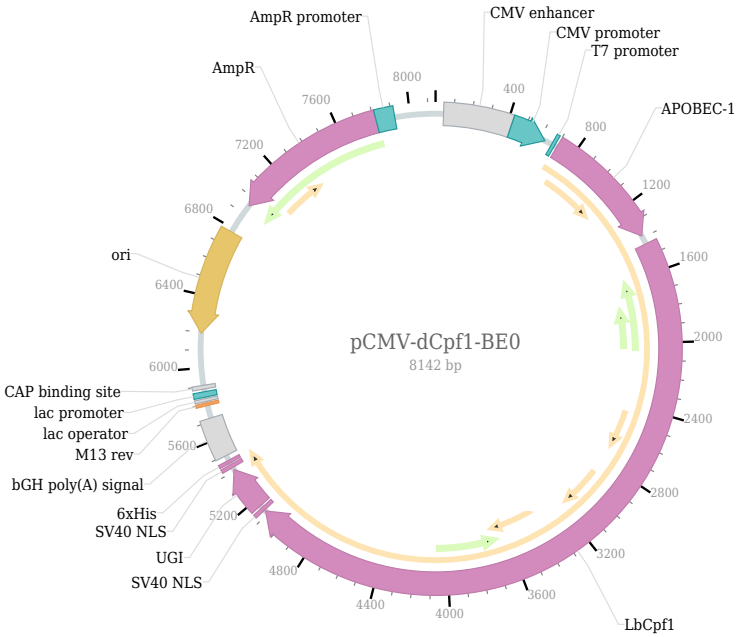
pCMV-dCpf1-BE0

Vector ID	V017443
Antibiotic Resistance	Ampicillin
Length	8142 bp
Vector Type	Gene knockout
Host	Mammalian cells

Product Information

Replication Origin	ori
Promoter	CMV
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pCMV-dCpf1-BE0 is a mammalian CMV-driven cytosine base editor plasmid carrying rat APOBEC1, catalytically dead dLbCpf1 and UGI fusion cassette. It recognizes TTTV T-rich PAMs and mediates targeted C-to-T conversion in human cells with low indel and off-target editing rates. Lacking an extra N-terminal SV40 NLS, it shows weaker editing efficiency than its upgraded derivative pCMV-dCpf1-BE. This vector serves as the foundational prototype for all optimized dCpf1-based base editing variants in the study.

Vector Map



Plasmid Resuspension Protocol

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 ℃.