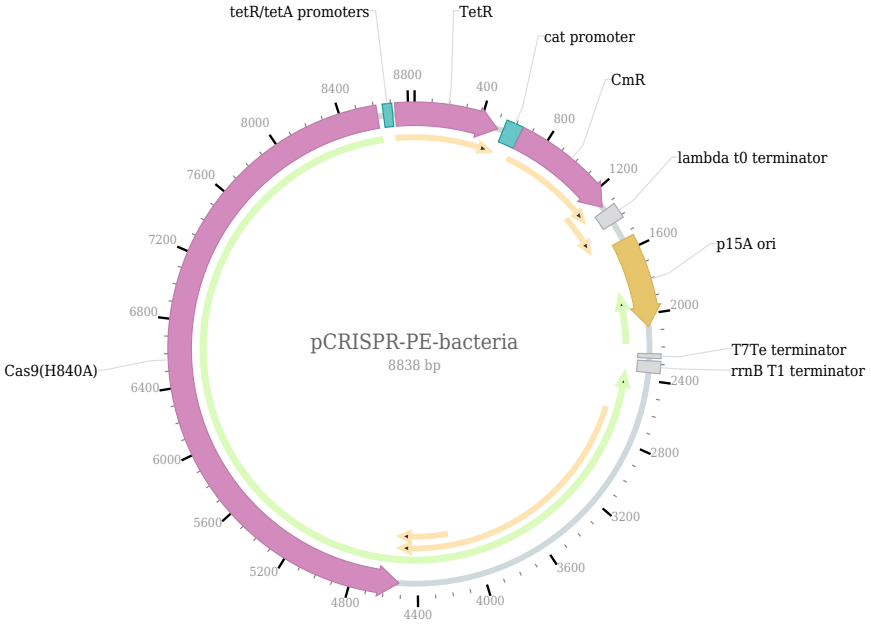
pCRISPR-PE-bacteria

Vector ID	V017643
Antibiotic Resistance	Chloramphenicol
Length	8838 bp
Vector Type	Gene-editing vector
Host	Bacteria

Product Information

Replication Origin	p15A ori
3' Primer	CmR-R
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pCRISPR-PE-bacteria (8.8 kb) is a bacterial expression vector for prime editing in E. coli. It encodes an E. coli codon-optimized Cas9 nickase (H840A) fused to an M-MLV reverse transcriptase (PE2 system) . The vector includes a cat promoter driving CmR (chloramphenicol resistance), a tetR/tetA dual promoter system, a p15A ori for low-copy replication, and lambda t0 plus rrnB T1/T7Te terminators for transcriptional control.

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 ℃.