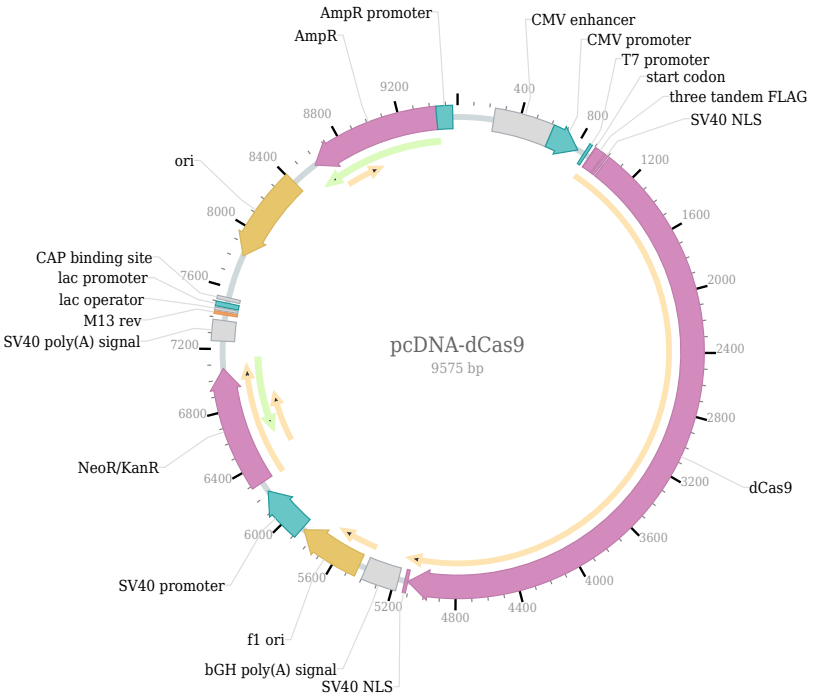
pcDNA-dCas9

Vector ID	V012280
Antibiotic Resistance	Ampicillin
Length	9575 bp
Vector Type	CRISPR Plasmids

Product Information

Replication Origin	ori
Source/Author	Perez-Pinera P, Kocak DD, Vockley CM, Adler AF, Kabadi AM, Polstein
Selection Marker	Neomycin/G418(Geneticin)
Copy Number	High copy number
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pcDNA-dCas9 is a mammalian expression vector for catalytically inactive dCas9 (dead Cas9) from Streptococcus pyogenes. A CMV promoter drives expression of dCas9 fused with three tandem FLAG tags and SV40 nuclear localization signals (NLS) for detection and nuclear import. The vector also includes NeoR/KanR (G418 resistance) for stable selection, AmpR for bacterial selection, pUC ori, f1 ori, SV40 promoter/poly(A), bGH poly(A), and M13 priming sites.

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 ℃.