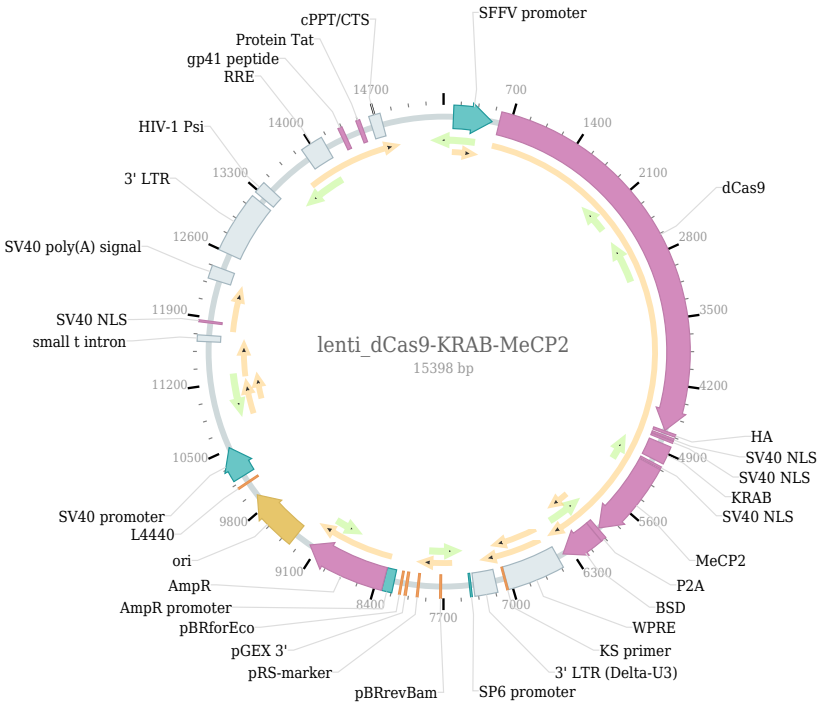
lenti_dCas9-KRAB-MeCP2

Vector ID	V005494
Antibiotic Resistance	Ampicillin
Length	15398 bp
Vector Type	Mammalian Expression, Lentiviral

Product Information

Replication Origin	ori
Source/Author	Xiangtian Tan
Selection Marker	Blasticidin
Copy Number	High copy number
Promoter	SFFV
Cloning Method	Restriction Enzyme
5' Primer	AACGGCAGCAGCGGATC
3' Primer	CGACCTGCAGGCATGCAA
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	Bipartite dCas9 repressor (dCas9-KRAB-MeCP2) in a UCOE-SFFV-dCas9 lentiviral vector. The plasmid vector lenti_dCas9-KRAB-MeCP2 is a lentiviral tool designed for targeted gene repression. It utilizes a catalytically inactive dCas9 fused to two repressor domains, KRAB and MeCP2, to synergistically silence specific genes guided by a designed RNA.

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 ℃.