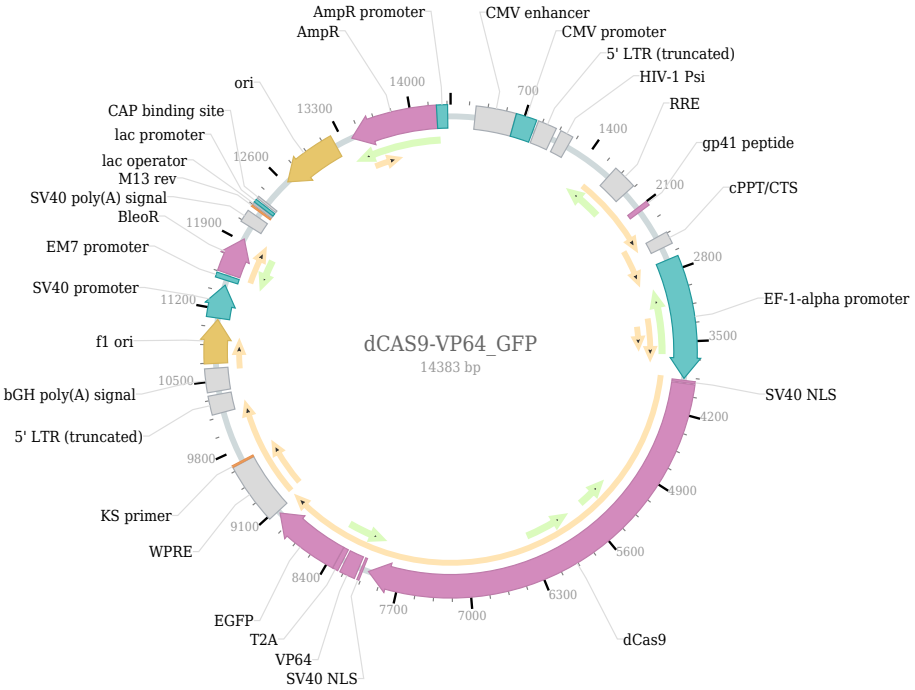
dCAS9-VP64_GFP

载体编号 Vector ID	V012347
抗性 Antibiotic Resistance	Ampicillin
长度 Length	14383 bp
载体类型 Vector Type	CRISPR Plasmids

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Konermann S, Brigham MD, Trevino AE, Joung J, Abudayyeh OO, Barcena
拷贝数 Copy Number	High copy number
启动子 Promoter	EF-1α
培养菌株 Growth Strain(s)	stbl3
培养温度 Growth Temperature	37℃
备注 Comment	This lentiviral plasmid is a core component of the SAM CRISPR activation system developed by Feng Zhang's lab. It expresses nuclease-dead dCas9 fused to VP64 transactivator, separated from GFP via a 2A self-cleaving peptide for fluorescent cell labeling. Guided by MS2-modified sgRNA, dCas9-VP64 recruits co-activators to potently upregulate endogenous gene transcription. GFP fluorescence enables easy sorting and validation of cells stably expressing this CRISPRa effector for gain-of-function screens.

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 ℃.