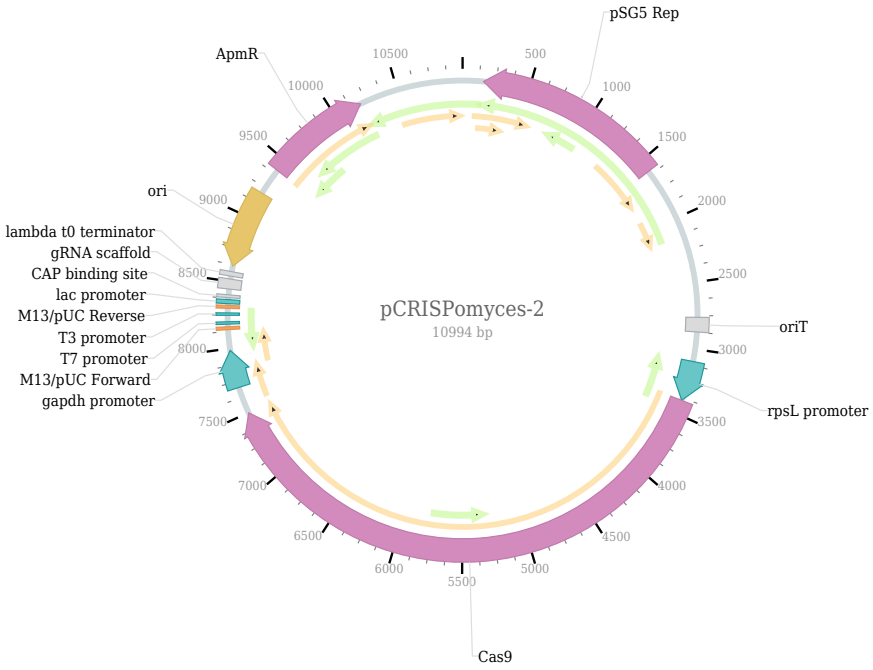
pCRISPomyces-2

载体编号 Vector ID	V011616
抗性 Antibiotic Resistance	Apramycin
长度 Length	10994 bp
载体类型 Vector Type	Bacterial Expression, CRISPR

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	rpsL
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pCRISPomyces-2 is a codon-optimized CRISPR/Cas9 shuttle plasmid tailored for efficient multiplex genome editing in Streptomyces. It expresses a single sgRNA instead of separate tracrRNA/crRNA, achieving up to 100% editing efficiency across multiple Streptomyces strains. Its BbsI-flanked lacZ cassette and unique XbaI site enable one-step assembly of targeting spacers and homologous repair templates. With a temperature-sensitive replicon, this conjugative vector can be easily cured post-editing for reusable antibiotic selection markers.

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 ℃.