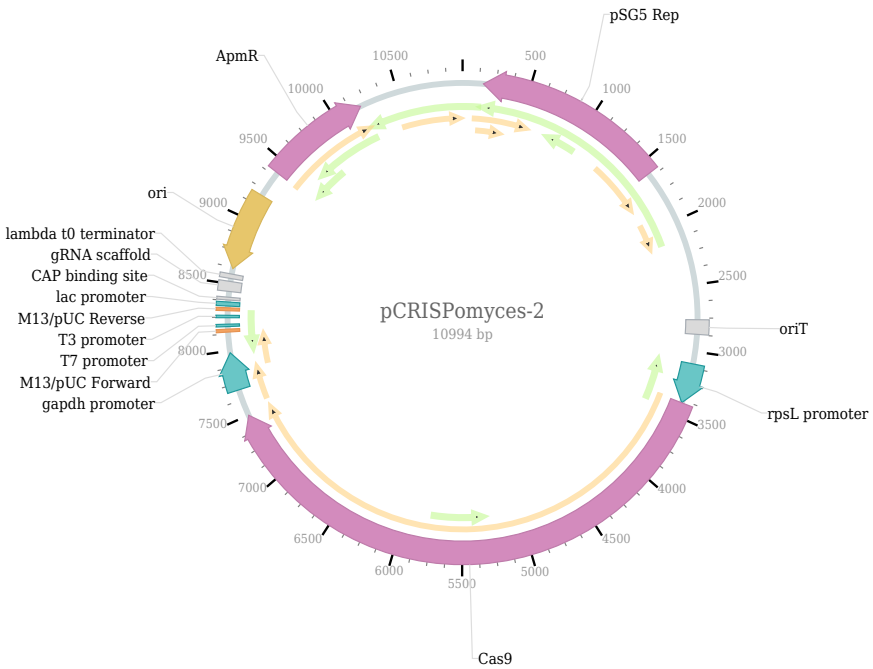
pCRISPomyces-2

Vector ID	V011616
Antibiotic Resistance	Apramycin
Length	10994 bp
Vector Type	Bacterial Expression, CRISPR

Product Information

Replication Origin	ori
Copy Number	High Copy
Promoter	rpsL
Growth Strain(s)	DH10B
Growth Temperature	37℃
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.

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 ℃.