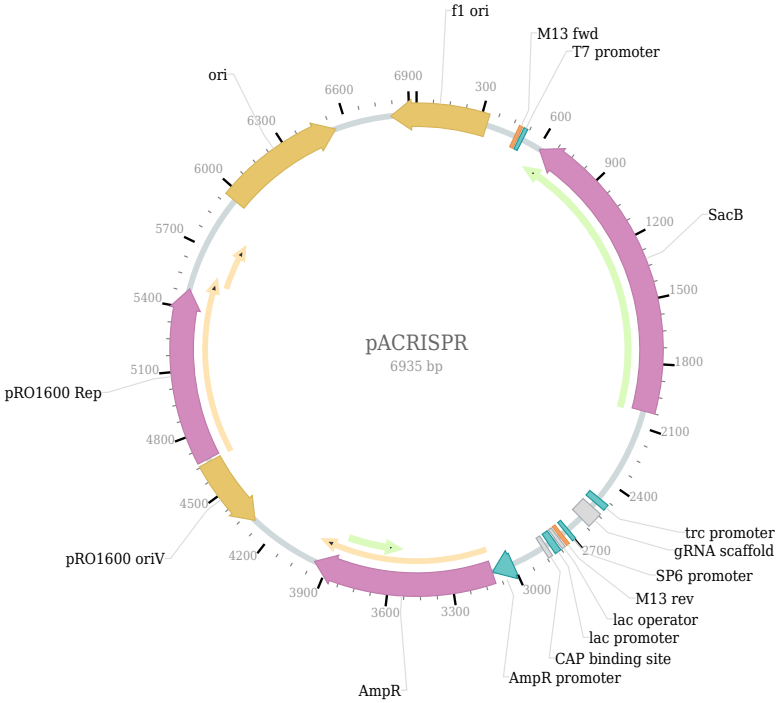
pACRISPR

Vector ID	V012360
Antibiotic Resistance	Ampicillin
Length	6935 bp
Vector Type	CRISPR, Synthetic Biology

Product Information

Replication Origin	ori
Promoter	trc
Growth Strain(s)	Stbl3
Comment	pACRISPR is the sgRNA-expressing shuttle plasmid of the two-plasmid CRISPR-Cas9 editing toolkit pCasPA/pACRISPR tailored for Pseudomonas aeruginosa. Its sgRNA transcription is driven by the strong constitutive trc promoter, and it contains BsaI sites for spacer cloning plus XbaI/XhoI sites to assemble homologous repair templates. Equipped with broad-host replicon mSF, carbenicillin resistance bla and counter-selectable sacB, it works with pCasPA to achieve scarless gene deletion, insertion and multiplex editing. After genome modification, the sacB marker enables straightforward plasmid curing on sucrose-containing plates.

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 ℃.