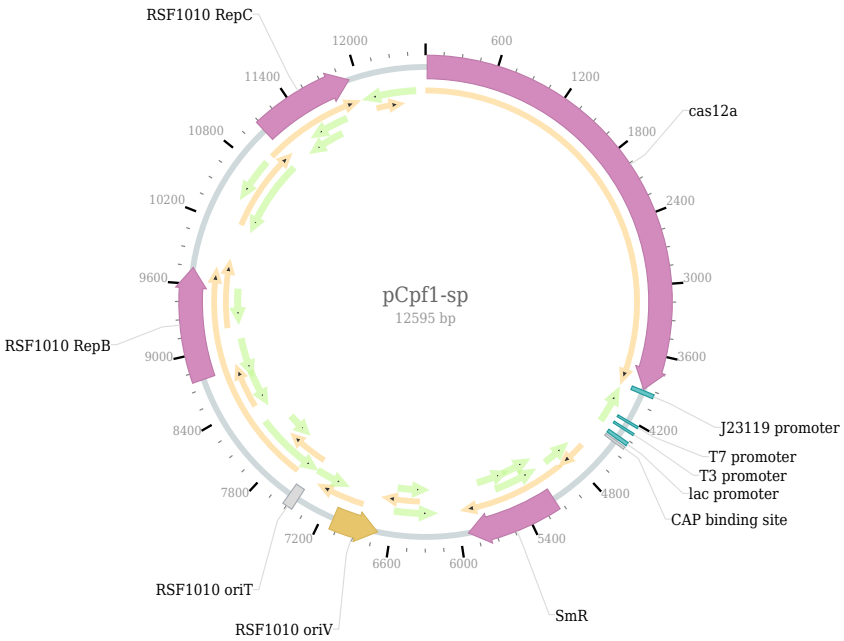
pCpf1-sp

Vector ID	V017406
Antibiotic Resistance	Spectinomycin
Length	12595 bp
Vector Type	Genome editing
Host	E. coli

Product Information

Replication Origin	RSF1010 oriV
Copy Number	Low
Promoter	J23119
5' Primer	M13F
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pCpf1-sp is a broad-host-range bacterial genome-editing plasmid for CRISPR-FnCpf1 editing of cyanobacteria. It uses the RSF1010 oriV (low-copy, mobilizable) and carries spectinomycin resistance (aadA). Relative to sibling pCpf1b (kanamycin/neomycin), only the selectable marker was swapped; FnCpf1, sacB counter-selection and lacZα screening are otherwise identical.

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 ℃.