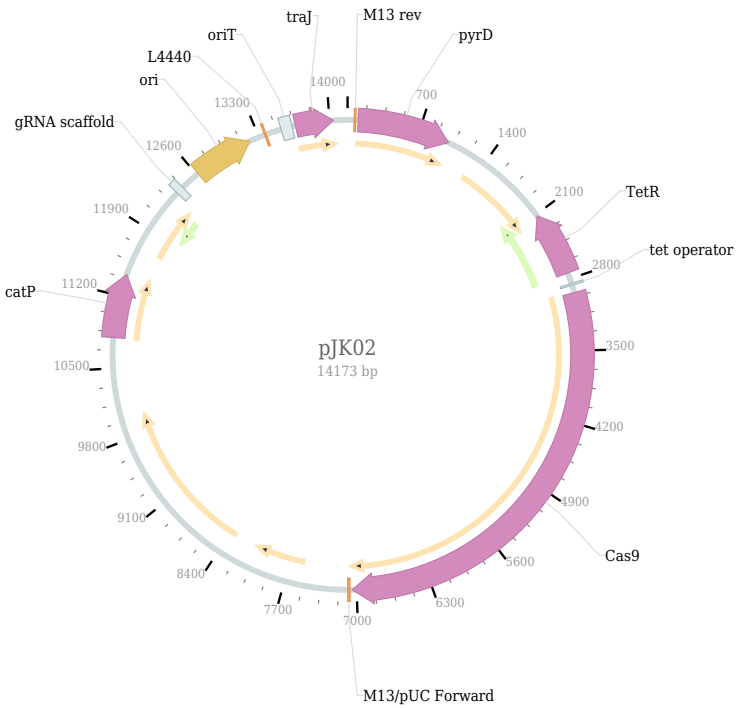
pJK02

Vector ID	V000706
Antibiotic Resistance	Chloramphenicol
Length	14173 bp
Vector Type	E. coli - C. difficile shuttle vector

Product Information

Replication Origin	ori
Copy Number	Low Copy
Growth Strain(s)	DH10B
Comment	pJK02 is a CRISPR-Cas9 gene editing plasmid containing the traJ/oriT element for conjugative transfer. It enables precise knockout of the slpA gene in Clostridioides difficile by targeting the pyrE gene, thereby revealing the critical role of the S-layer protein in pathogenic mechanisms.

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 ℃.