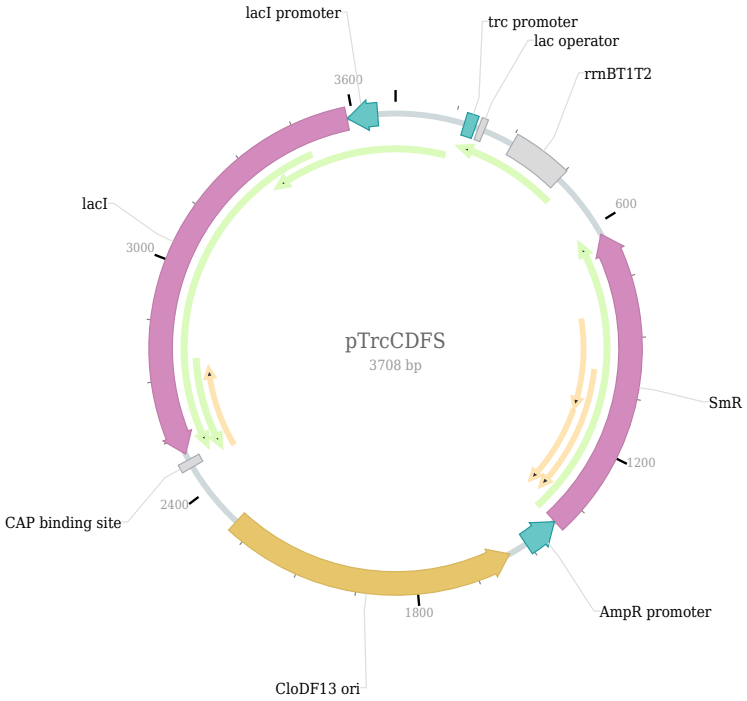
pTrcCDFS

Vector ID	V002542
Antibiotic Resistance	Streptomycin
Length	3708 bp
Vector Type	Cloning vector

Product Information

Replication Origin	CloDF13 ori
Source/Author	Kim B, Binkley R, Kim HU, Lee SY.
Copy Number	Low copy number
Promoter	trc
Growth Strain(s)	DH10B
Comment	pTrcCDFS is a 3,708-bp low-copy Escherichia coli cloning and expression vector. It features a trc promoter fused to a lac operator for IPTG-inducible expression, a CloDF13 origin compatible with ColE1-based plasmids, streptomycin resistance, lacI repressor, and rrnB terminators. It supports metabolic-engineering gene overexpression.

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 ℃.