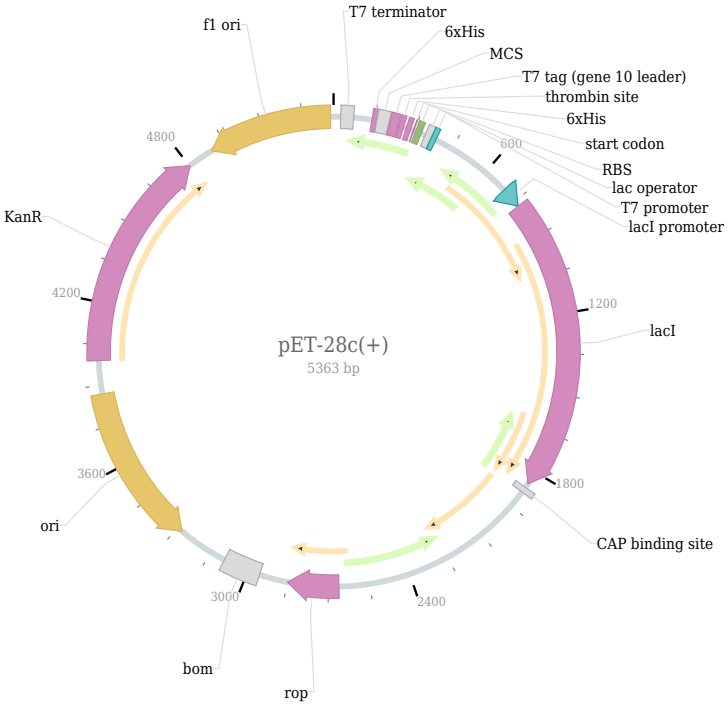
pET-28c(+)

Vector ID	V011003
Antibiotic Resistance	Kanamycin
Length	5363 bp
Vector Type	pET & Duet Vectors (Novagen)

Product Information

Replication Origin	ori
Source/Author	Novagen (EMD Millipore)
Copy Number	High copy number
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pET-28c(+) is a high-copy-number plasmid vector for high-level protein expression in E. coli. The MCS region is optimized compared to the pET-28a(+) . It features a T7 promoter system for IPTG-inducible expression and an N-terminal His-Tag sequence, facilitating protein purification via affinity chromatography. Selection is achieved with a kanamycin resistance marker. The vector is 5363 bp in size and is commonly used with BL21(DE3) host strains.

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 ℃.