pGro7

Vector ID	V012802
Antibiotic Resistance	Chloramphenicol
Length	5467 bp
Vector Type	E.coli expression plasmid

Product Information

Replication Origin	p15A ori
Source/Author	Takara
Copy Number	Medium copy number
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	Plasmids of chaperone. The function of the plasmid pGro7 is to express the GroEL and GroES proteins, which are chaperonins involved in protein folding in the cytoplasm of Escherichia coli. pGro7 is a high-copy-number plasmid, meaning that it exists in multiple copies per cell, and it is often used for overexpression of proteins in E. coli. The GroEL and GroES proteins form a complex that helps to fold newly synthesized proteins into their correct conformation, preventing protein aggregation and enhancing protein stability. pGro7 is a valuable tool in molecular biology for protein production and research.

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 ℃.