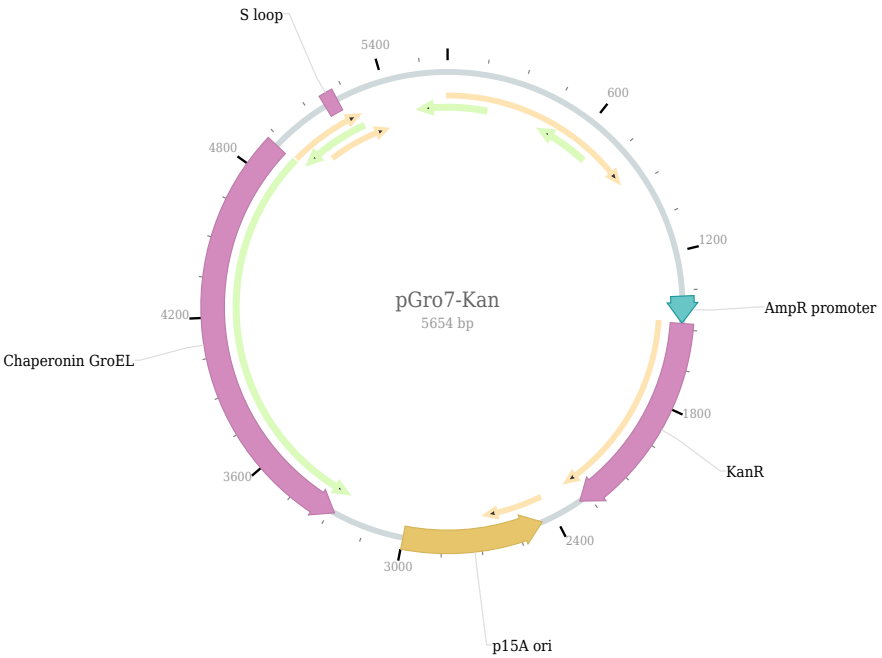
pGro7-Kan

Vector ID	V013834
Antibiotic Resistance	Kanamycin
Length	5654 bp
Vector Type	Packaging assistance
Host	E. coli

Product Information

Replication Origin	p15A ori
Promoter	araBAD
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pGro7-Kan is a chaperone plasmid for E. colidesigned to improve the solubility and yield of recombinant proteins. It expresses the GroES-GroEL chaperone team, which assists in proper protein folding. The vector features a kanamycin resistance marker (KanR) for selection, replacing the chloramphenicol resistance found in the original pGro7 vector. Chaperone expression is typically induced by L-arabinose, allowing for controlled co-expression alongside a target protein to prevent aggregation and enhance functional protein production.

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 ℃.