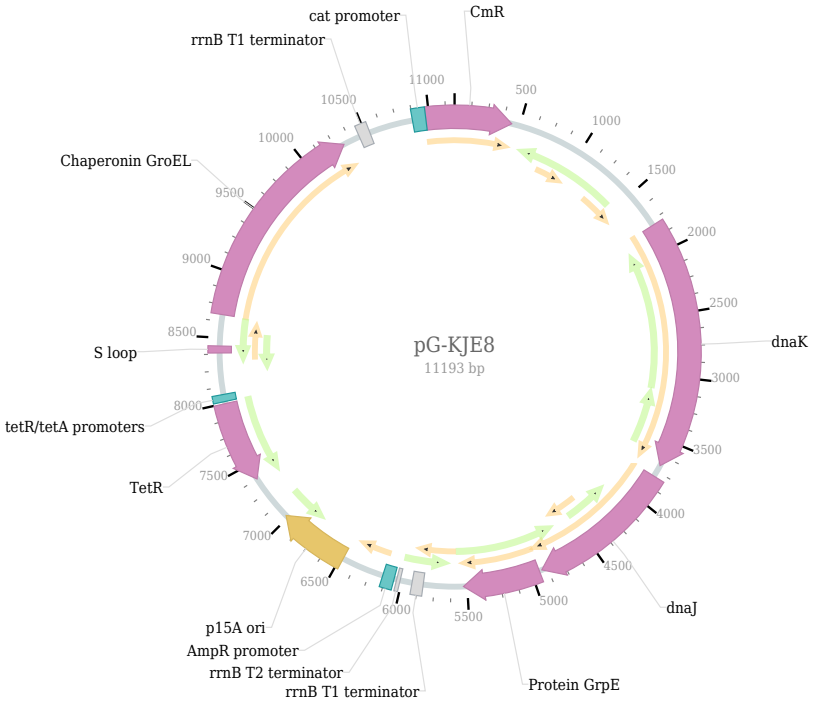
pG-KJE8

Vector ID	V012941
Antibiotic Resistance	Chloramphenicol
Length	11193 bp
Vector Type	Packaging assistance
Host	E. coli

Product Information

Replication Origin	p15A ori
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pG-KJE8 is a chaperone co-expression plasmid that simultaneously overexpresses two major chaperone teams in E. coli: the DnaK-DnaJ-GrpE (Hsp70) system, induced by L-arabinose, and the GroEL-GroES (Hsp60) system, induced by tetracycline. By promoting correct folding of recombinant proteins, it enhances solubility and reduces inclusion body formation. The plasmid carries a pACYC origin and chloramphenicol resistance, enabling compatibility with common ColE1-type, ampicillin-resistant expression vectors.

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 ℃.