pGro7-Kan

载体编号 Vector ID	V013834
抗性 Antibiotic Resistance	Kanamycin
长度 Length	5654 bp
载体类型 Vector Type	Packaging assistance
宿主 Host	E. coli

产品信息

复制子 Replication Origin	p15A ori
启动子 Promoter	araBAD
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 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.

质粒图谱



复溶方法

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 ℃.