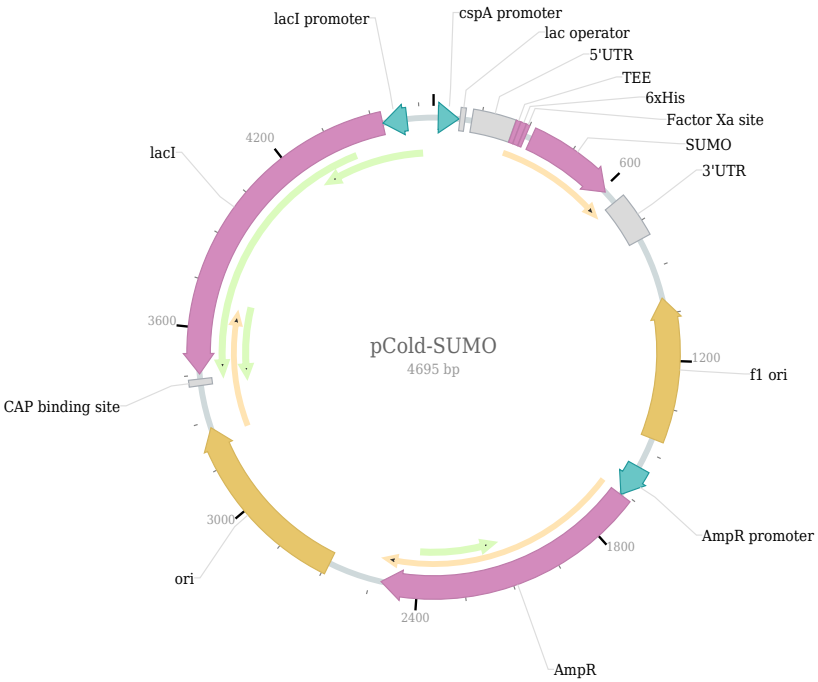
pCold-SUMO

载体编号 Vector ID	V012856
登录号 Accession ID	pColdSUMO
抗性 Antibiotic Resistance	Ampicillin
长度 Length	4695 bp
载体类型 Vector Type	Protein expression
宿主 Host	E. coli

产品信息

复制子 Replication Origin	ori
启动子 Promoter	cspA
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	The prokaryotic expression vector pCold-SUMO is a modified version of the pCold vector. This vector utilizes the CS Promoter, which is derived from Antarctic psychrophilic bacteria, to initiate protein expression at low temperatures (15°C). At low temperatures, bacterial growth is slow, resulting in a reduced rate of protein synthesis. This, in turn, maximizes the chances of proper protein folding, enhances soluble protein expression, and increases the ratio of active protein. The expression system includes a SUMO tag, which can significantly improve the expression levels of small molecular weight proteins, further increasing the likelihood of soluble protein expression.

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 ℃.