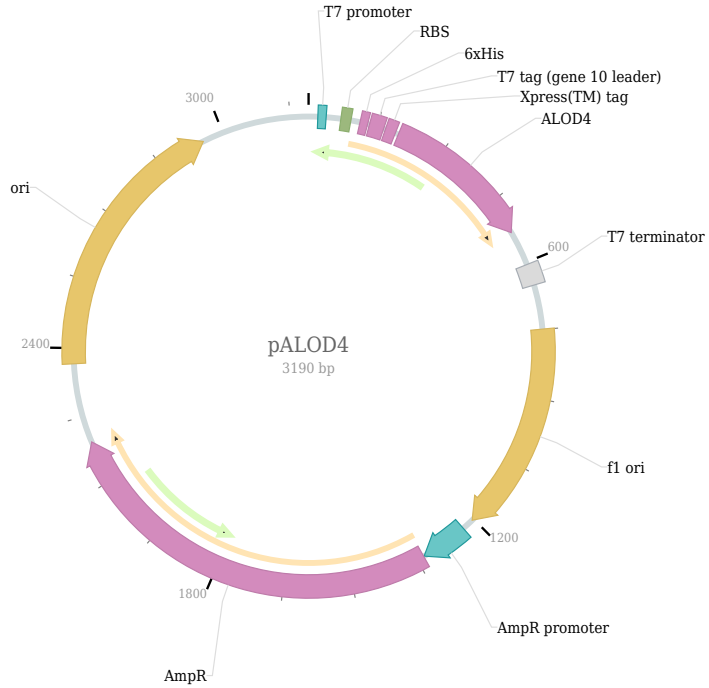
pALOD4

载体编号 Vector ID	V017013
抗性 Antibiotic Resistance	Ampicillin
长度 Length	3190 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	T7
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pALOD4 is a pRSET-B prokaryotic expression plasmid encoding the monomeric cholesterol-binding domain 4 (404–512 aa) of anthrolysin O (ALO). It carries C472A and S404C mutations to eliminate native cysteine interference and enable fluorescent labeling, without oligomerization or hemolytic activity. Expressed in E. coli BL21 (DE3) pLysS, this construct serves as a tool to isolate membrane lipid-driven cholesterol sensing from protein oligomerization effects. Its mutant version with disrupted sterol-binding hexapeptide acts as a negative control for membrane cholesterol detection assays.

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 ℃.