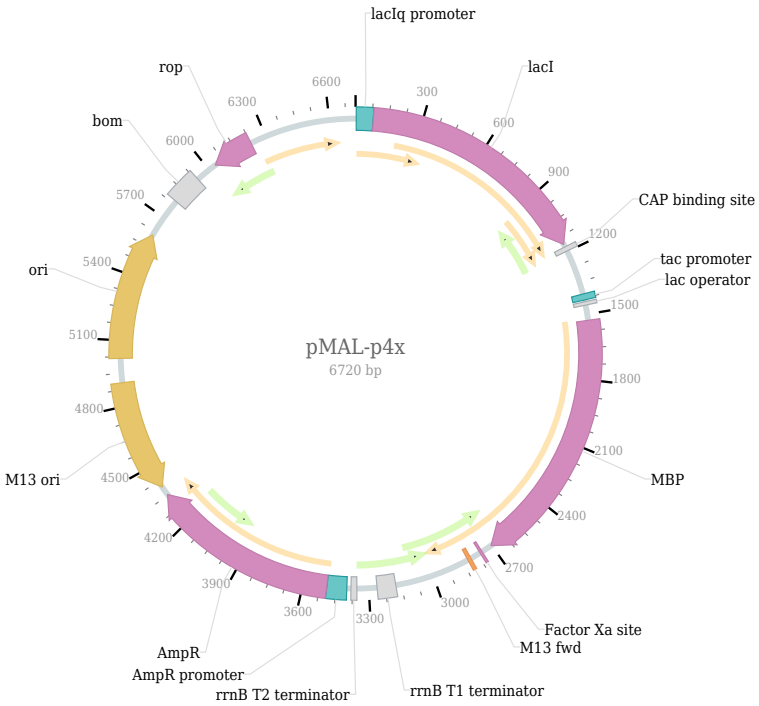
pMAL-p4x

载体编号 Vector ID	V000720
抗性 Antibiotic Resistance	Ampicillin
长度 Length	6720 bp
载体类型 Vector Type	E. coli Expression Vectors

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High copy number
启动子 Promoter	Tac
克隆方法 Cloning Method	Enzyme digestion and ligation
5' 引物 5' Primer	MalE: 5'-GGTCGTCAGACTGTCGATGAAGCC-3'; MBP-F: 5'-gatgaagccctgaaagacgcgcag-3'
3' 引物 3' Primer	pBad-R: 5'-gatttaatctgtatcagg-3'; M13-F: 5'-TGTAAAACGACGGCCAGT-3'
融合标签 Fusion Tag	N-MBP, N-Factor Xa
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pMAL-p4X, one of the pMAL-4 vectors, enables high-level production of MBP-fusion proteins under the strong tac promoter. Its MBP facilitates one-step amylose affinity purification. Equipped with an MBP signal peptide, it targets fusions to E. coli periplasm for proper folding. It carries lacIq for IPTG-controlled expression and a Factor Xa cleavage site to separate target protein from MBP after purification.

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 ℃.