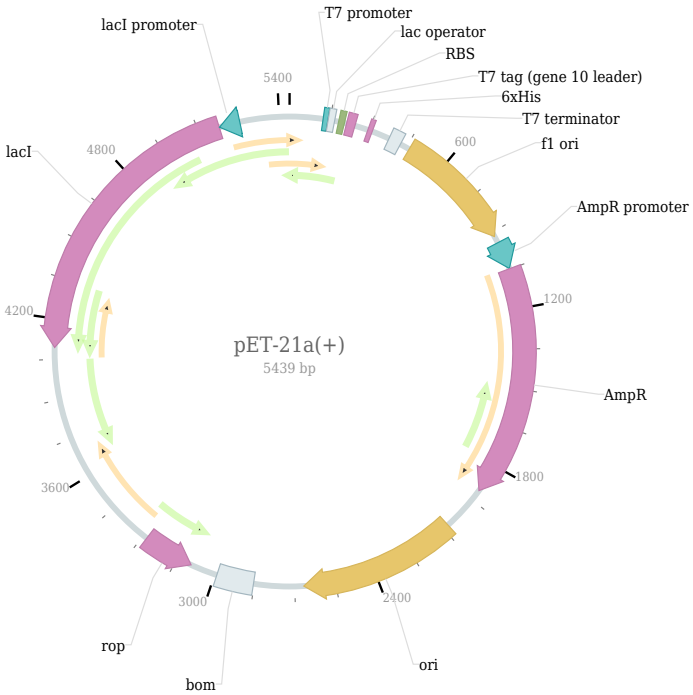
pET-21a(+)

载体编号 Vector ID	V011023
抗性 Antibiotic Resistance	Ampicillin
长度 Length	5439 bp
载体类型 Vector Type	pET & Duet Vectors (Novagen)

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Novagen (EMD Millipore)
拷贝数 Copy Number	High copy number
培养菌株 Growth Strain(s)	DH10b
培养温度 Growth Temperature	37℃
备注 Comment	pET-21a(+) is the classic E. coli T7-based cytoplasmic protein expression vector from Novagen (EMD Millipore / MilliporeSigma), part of the legendary pET system. Its defining feature: your gene is expressed with an in-frame C-terminal 6×His tag for one-step Ni-NTA purification, under the ironclad control of the T7 promoter / lac operator system. It differs from its siblings pET-21b(+), pET-21c(+), pET-21d(+) only in MCS orientation and reading frame — the backbone is identical. And it differs from the pET-24 series in one simple swap: AmpR instead of KanR.

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 ℃.