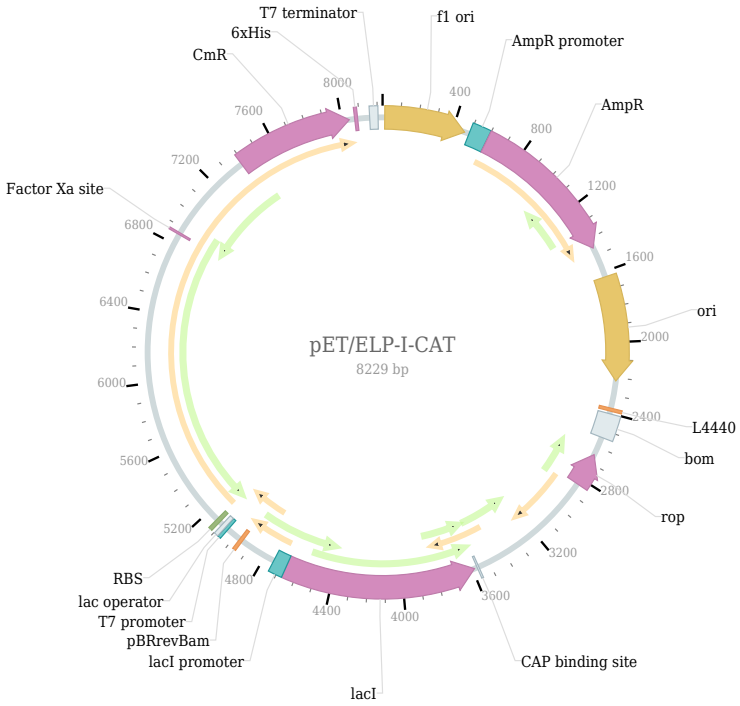
pET/ELP-I-CAT

Vector ID	V000269
Antibiotic Resistance	Ampicillin
Length	8229 bp
Vector Type	Bacterial Expression

Product Information

Replication Origin	ori
Copy Number	Low Copy
Cloning Method	Restriction Enzyme
5' Primer	T7 to sequence ELP
3' Primer	F1ori-R
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pET/ELP-I-CAT is a T7-based E.coli expression vector that implements the ELP–Intein affinity-purification system — a chromatography-free protein purification platform where your target protein is fused to an ELP (Elastin-Like Polypeptide) tag for temperature-driven phase separation and an intein (self-cleaving domain) for tag removal in a single tube — and CAT (chloramphenicol acetyltransferase) in this specific deposited plasmid is the placeholder/demonstration gene sitting downstream of the intein to prove the system works.

Vector Map



Plasmid Resuspension Protocol

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 ℃.