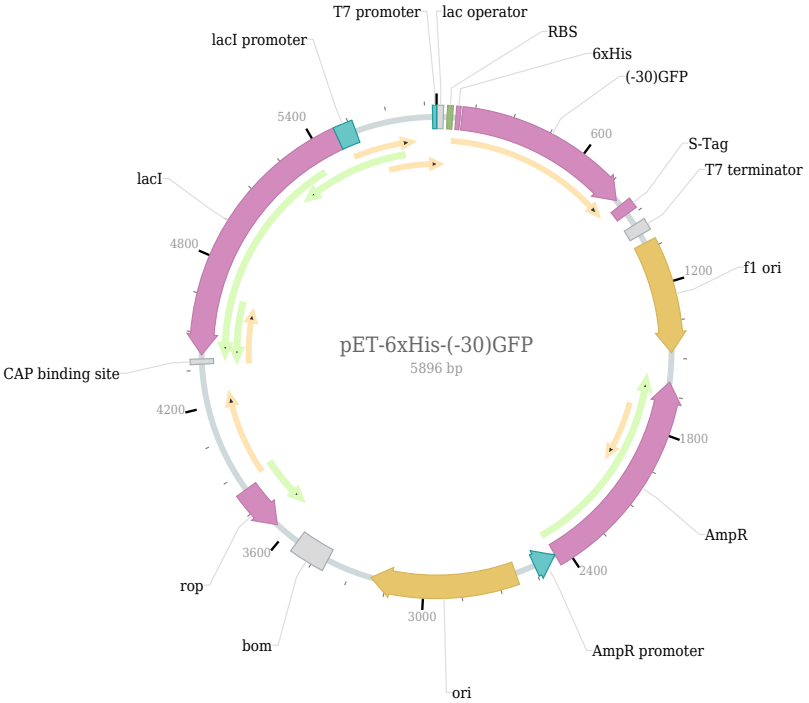
pET-6xHis-(-30)GFP

Vector ID	V015226
Antibiotic Resistance	Ampicillin
Length	5896 bp
Vector Type	Protein expression
Host	E. coli

Product Information

Replication Origin	ori
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pET-6xHis-(-30)GFP is a T7-driven E. coli expression plasmid from Liu's lab for producing supernegatively charged (-30)GFP fused to genome-editing proteins. Its N-terminal 6×His tag enables Ni-affinity purification, and the highly anionic (-30)GFP tag allows electrostatic complexation with commercial cationic lipid transfection reagents. Fusion proteins like (-30)GFP-Cre or (-30)GFP-Cas9 can be efficiently delivered into mammalian cells and mouse inner ear hair cells with serum tolerance and low toxicity. This vector supports virus-free, transient protein delivery with much higher genome editing specificity than plasmid DNA transfection.

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 ℃.