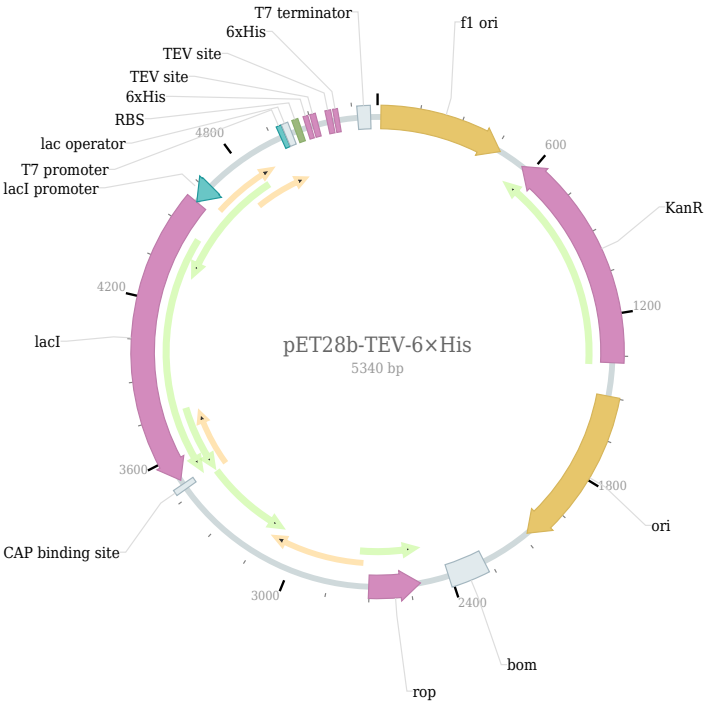
pET28b-TEV-6×His

Vector ID	V013030
Accession ID	pET28bTEV6×His
Antibiotic Resistance	Kanamycin
Length	5340 bp
Vector Type	Protein expression
Host	E. coli

Product Information

Replication Origin	ori
Promoter	T7
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	The pET28b-TEV-6×His is an E. coliprotein expression plasmid of 5344 bp, featuring a T7/lac promoter for IPTG-inducible control and a kanamycin resistance marker. It is designed to express recombinant proteins with an N-terminal 6xHis affinity tag, which is followed by a specific cleavage site for Tobacco Etch Virus (TEV) protease (sequence: ENLYFQG). This design allows for high-level protein expression in hosts like BL21(DE3) and subsequent removal of the purification tag to obtain the native protein sequence.

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 ℃.