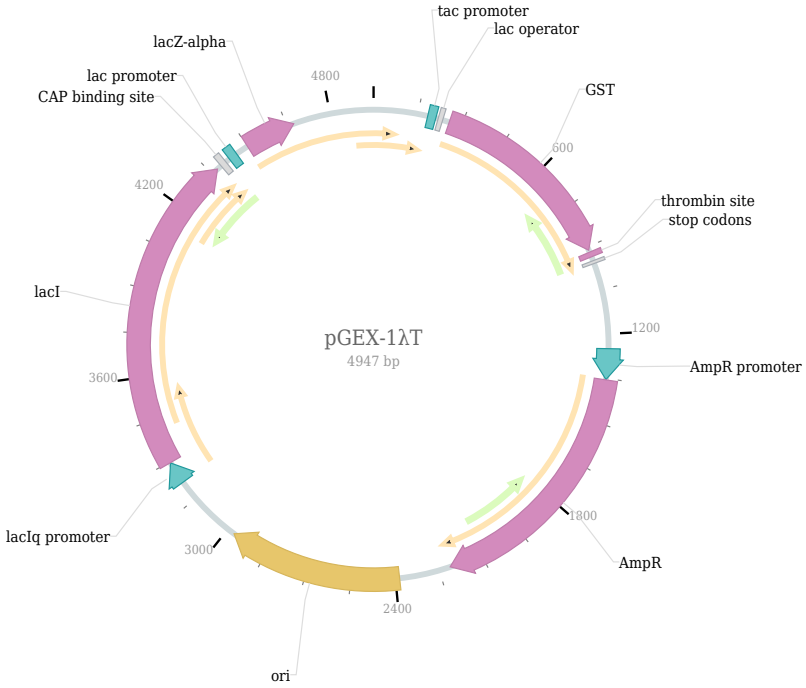
pGEX-1λT

Vector ID	V010922
Antibiotic Resistance	Ampicillin
Length	4947 bp
Vector Type	pGEX Vectors (GE Healthcare)

Product Information

Replication Origin	ori
Source/Author	GE Healthcare
Copy Number	High copy number
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pGEX-1λT is an E. coli protein expression plasmid from the pGEX series. It features a tac promoter for IPTG-inducible, high-level expression of recombinant proteins as fusions with the GST tag, facilitating purification via glutathione affinity chromatography. The plasmid carries an ampicillin resistance gene (AmpR) for selection in bacterial hosts like DH5α. A key characteristic of pGEX-1λT is its design to directly accept and express cDNA inserts cloned in λgt11 libraries.

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 ℃.