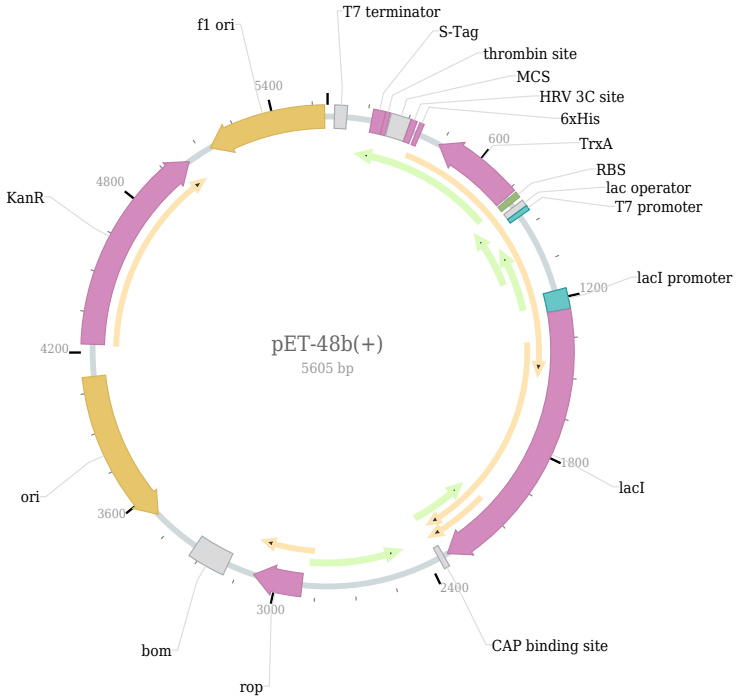
pET-48b(+)

Vector ID	V010957
Antibiotic Resistance	Kanamycin
Length	5605 bp
Vector Type	pET & Duet Vectors (Novagen)

Product Information

Replication Origin	ori
Source/Author	Novagen (EMD Millipore)
Copy Number	High copy number
Growth Strain(s)	DH5a
Comment	pET-48b(+) (5.6 kb) is a bacterial expression vector for high-level, inducible production of fusion proteins. It features a T7 promoter (with lac operator) for tight IPTG-inducible expression. The fusion tag includes TrxA (thioredoxin) to enhance solubility, a 6xHis tag, an HRV 3C protease site, a thrombin site, and an S-Tag. The vector also carries KanR (kanamycin resistance), pBR322 ori, lacI for repression, bom (basis of mobility), and rop.

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 ℃.