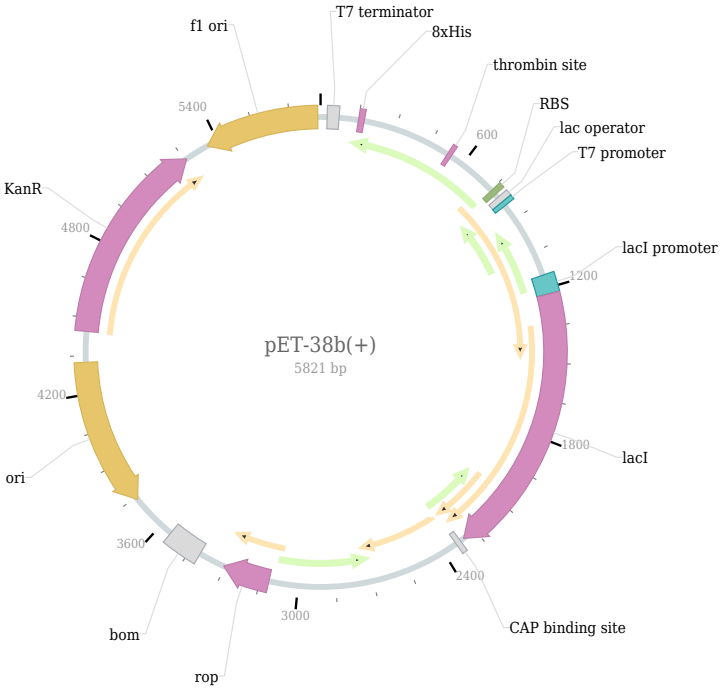
pET-38b(+)

Vector ID	V000468
Antibiotic Resistance	Kanamycin
Length	5821 bp
Vector Type	E. coli Expression Vectors

Product Information

Replication Origin	ori
Copy Number	High copy number
Cloning Method	Enzyme digestion and ligation
5' Primer	5'-TAATACGACTCACTATAGGG-3'
Fusion Tag	His,C-CBD
Comment	The pET-38b(+) vector (Cat. No. 70137-3) is designed for expression of C-terminal CBD cex fusion proteins. Target sequences inserted between the N-terminal signal sequence and C-terminal CBD cex •Tag and His•Tag sequences allow for potential export of the expressed protein. Sequences inserted at the Nde I site will be expressed in the cytoplasm. Note that inserts must allow read-through in the proper reading frame (shown below) to produce the desired polypeptide fusions. A variety of cloning sites and strategies are available. Unique sites are shown on the circle map. Note that the sequence is numbered by the pBR322 convention, so the T7 expression region is reversed on the circle map. The cloning/expression region of the coding strand transcribed by T7 RNA polymerase is shown below. The f1 origin is oriented so that infection with helper phage will produce virions containing single stranded DNA that corresponds to the coding strand. Therefore, single stranded sequencing should be performed using the T7 terminator primer (Cat. No. 69337-3).

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 ℃.