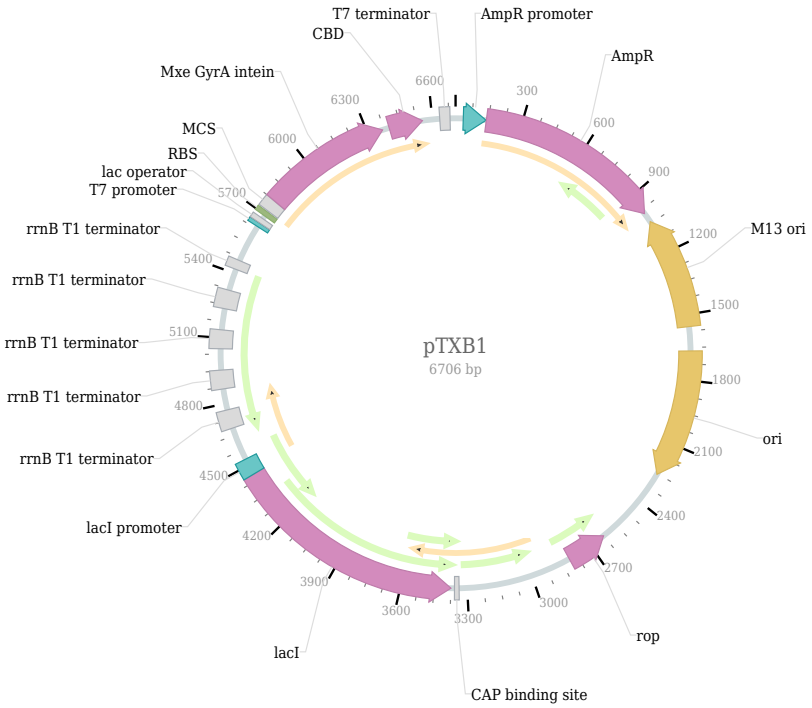
pTXB1

Vector ID	V012375
Antibiotic Resistance	Ampicillin
Length	6706 bp
Vector Type	Cloning Vectors

Product Information

Replication Origin	ori
Source/Author	Southworth MW, Amaya K, Evans TC, Xu MQ, Perler FB.
Copy Number	High copy number
Growth Strain(s)	DH10B
Comment	pTXB1 is a 6,706-bp E. coli expression vector of the IMPACT system. A target gene cloned at NdeI/SapI sites fuses C-terminally to a 27 kDa Mxe GyrA intein–chitin-binding domain (CBD). The fusion binds chitin resin; thiol-induced intein cleavage releases native target protein, enabling single-column purification. Ampicillin selects transformants.

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 ℃.