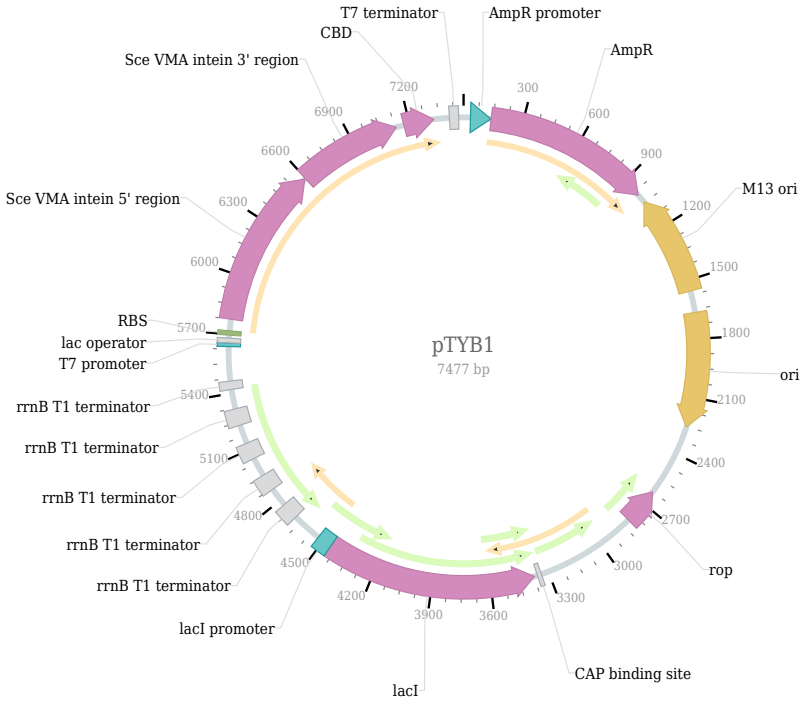
pTYB1

Vector ID	V012779
Antibiotic Resistance	Ampicillin
Length	7477 bp
Vector Type	E.coli expression plasmid

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	T7
Cloning Method	Enzyme Cut
Fusion Tag	Intein
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pTYB1 vector is a E. coli plasmid which facilitates the expression and purification of fusion proteins. A target gene can be inserted into the open reading frame (ORF) via the multiple cloning site (MCS) located upstream of the Sce VMA intein. The NdeI site within the MCS contains an ATG initiator sequence that allows for ORF translation. Downstream of the intein is a chitin-binding domain (CBD), which results in the formation of a target protein-intein fusion with C-terminal chitin tags, aiding in protein purification. Protein release is triggered by the intein' s thiol cleavage activity.

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 ℃.