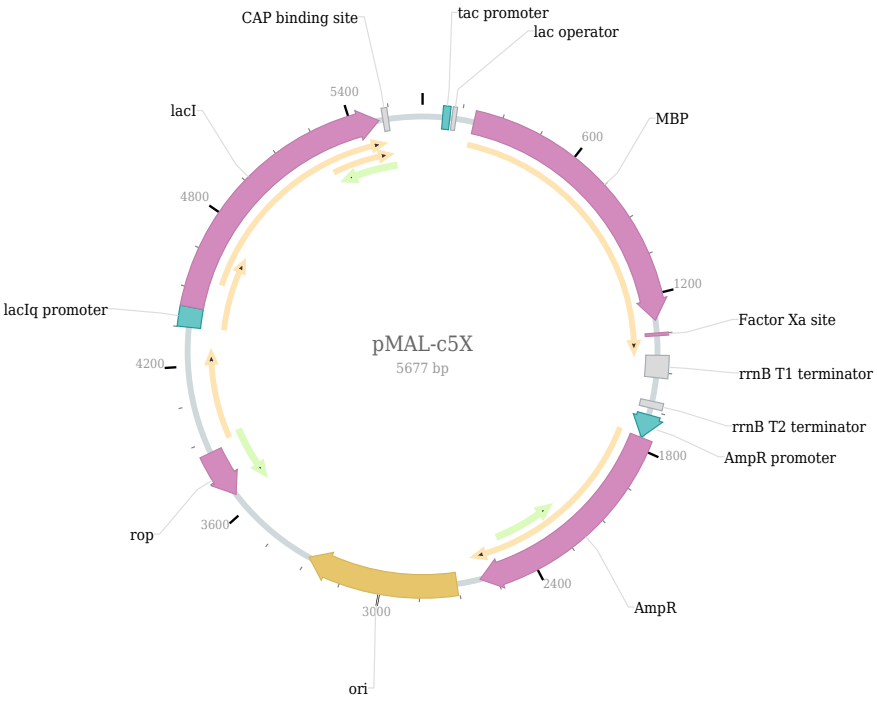
pMAL-c5X

Vector ID	V012449
Antibiotic Resistance	Ampicillin
Length	5677 bp
Vector Type	Cloning Vectors

Product Information

Replication Origin	ori
Source/Author	Riggs P.
Copy Number	High copy number
Comment	The pMAL-c5X vector contains a maltose-binding protein (MBP) tag, which enhances the solubility and stability of the target protein when expressed. It also has a strong promoter for efficient expression. One of its main benefits is the high expression levels and the ease of purification through affinity chromatography using starch resin. The pMAL-c5X vector is an excellent choice to improve protein solubility, ensure correct folding, or conduct structural and functional studies on proteins. It is also ideal for enzyme studies and antibody production.

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 ℃.