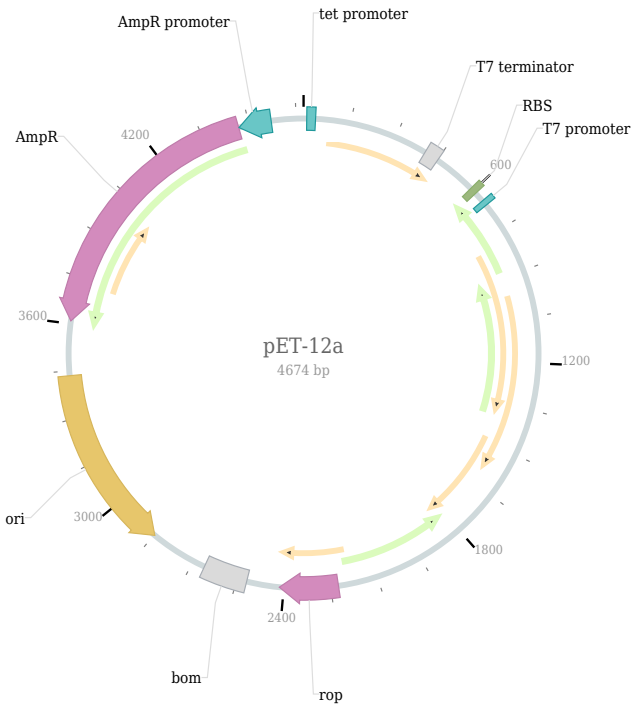
pET-12a

Vector ID	V012101
Antibiotic Resistance	Ampicillin
Length	4674 bp
Vector Type	E. coli Expression Vectors

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	tet
Cloning Method	Enzyme digestion and ligation
5' Primer	5'-TAATACGACTCACTATAGGG-3'
Comment	The pET-12a-c vectors carry an N-terminal ompT sequence for potential periplasmic export of target proteins. 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 circular map. The cloning/ expression region of the coding strand transcribed by T7 RNA polymerase is shown below.

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 ℃.