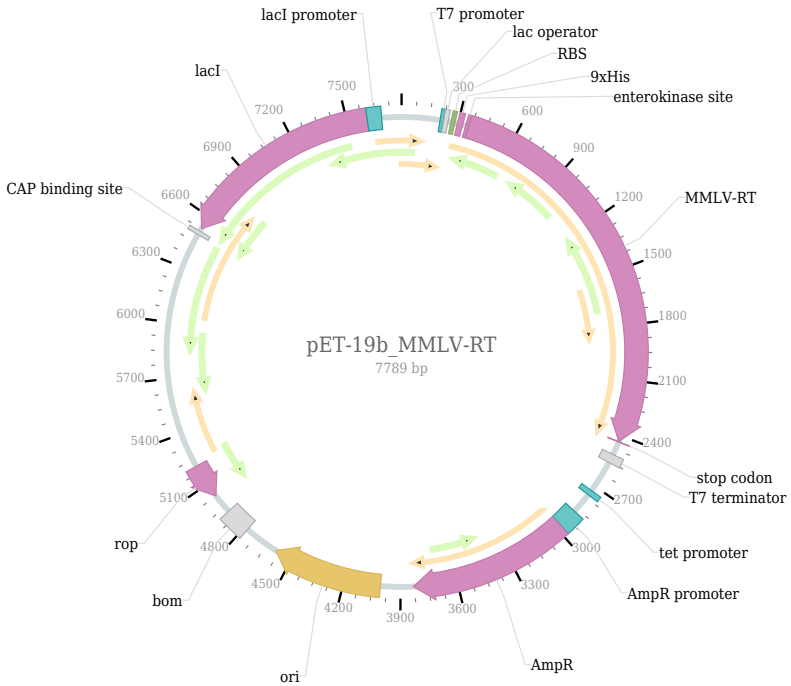
pET-19b_MMLV-RT

Vector ID	V014409
Antibiotic Resistance	Ampicillin
Length	7789 bp
Vector Type	Protein expression
Host	E. coli

Product Information

Replication Origin	ori
Promoter	T7
5' Primer	T7□TAATACGACTCACTATAGGG
Growth Strain(s)	DH10B
Growth Temperature	30℃
Comment	pET-19b_MMLV-RT is a prokaryotic (E. coli) expression plasmid in which a codon-optimized Moloney murine leukemia virus (M-MLV) reverse transcriptase gene was cloned into pET-19b with an N-terminal 10× His-tag; it carries ampicillin resistance and is used for IPTG-inducible recombinant M-MLV RT expression and Ni-NTA/Heparin purification, with the enzyme applied in reverse-transcription reactions (e.g., RT-LAMP for SARS-CoV-2 detection).

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 ℃.