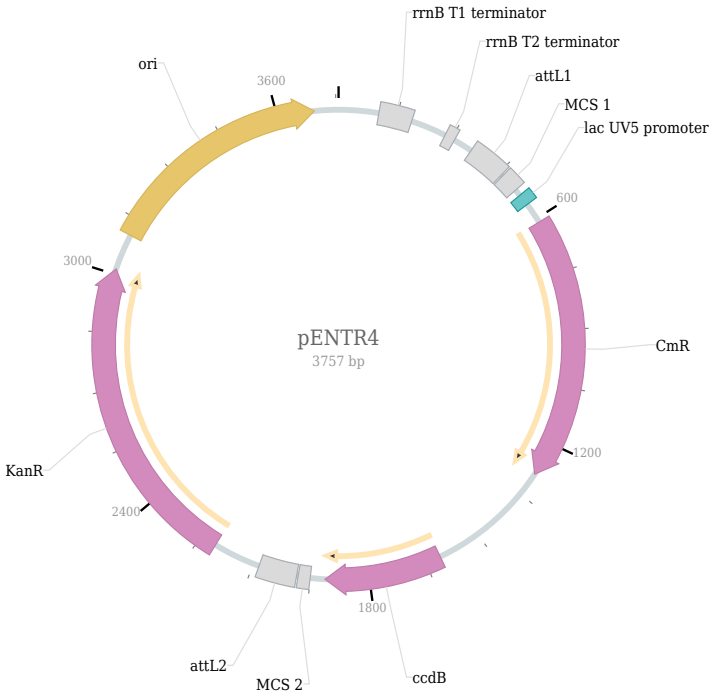
pENTR4

Vector ID	V011809
Antibiotic Resistance	Kanamycin
Length	3757 bp
Vector Type	Gateway Cloning Vectors

Product Information

Replication Origin	ori
Source/Author	Invitrogen (Life Technologies)
Copy Number	High copy number
Promoter	lac UV5
Growth Strain(s)	DB3.1
Growth Temperature	37℃
Comment	The pENTR4 is a 3.7 kb Gateway entry vector for cloning genes flanked by attL1 and attL2 sites. It is a high-copy plasmid with a kanamycin resistance gene and a pUC origin. A key feature is the ccdB lethal gene between the attL sites, requiring the use of ccdB-resistant strains like DB3.1 for propagation. Cloned inserts can be transferred via LR recombination to destination vectors for expression studies.

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 ℃.