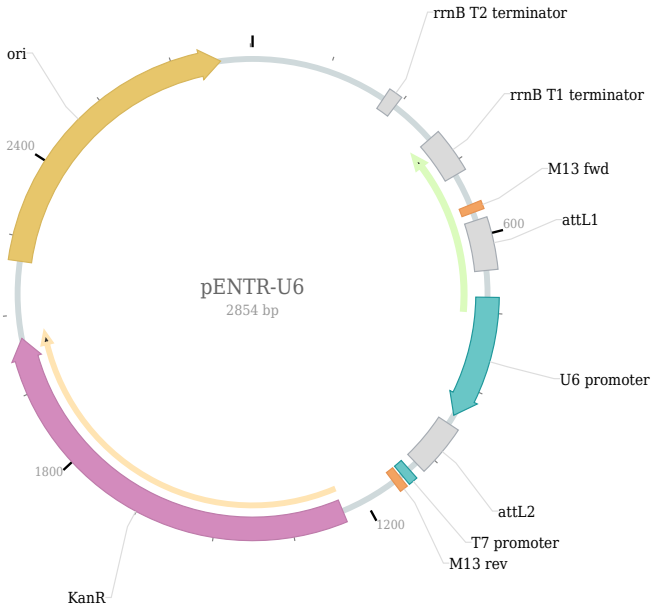
pENTR-U6

Vector ID	V014591
Antibiotic Resistance	Kanamycin
Length	2854 bp
Vector Type	RNA interference
Host	Mammalian cells

Product Information

Replication Origin	ori
Promoter	U6
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	The pENTR/U6 is a Gateway entry vector designed for cloning and expressing short hairpin RNA (shRNA) or single-guide RNA (sgRNA) in mammalian cells. It features a human U6 promoter, which is an RNA polymerase III-dependent promoter that drives high-level expression of small RNAs. The vector contains attL sites for efficient Gateway recombination, allowing the shRNA expression cassette to be transferred into various destination vectors (e.g., lentiviral vectors) for stable gene silencing applications. It typically includes a kanamycin resistance gene for selection in E. coli.

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 ℃.