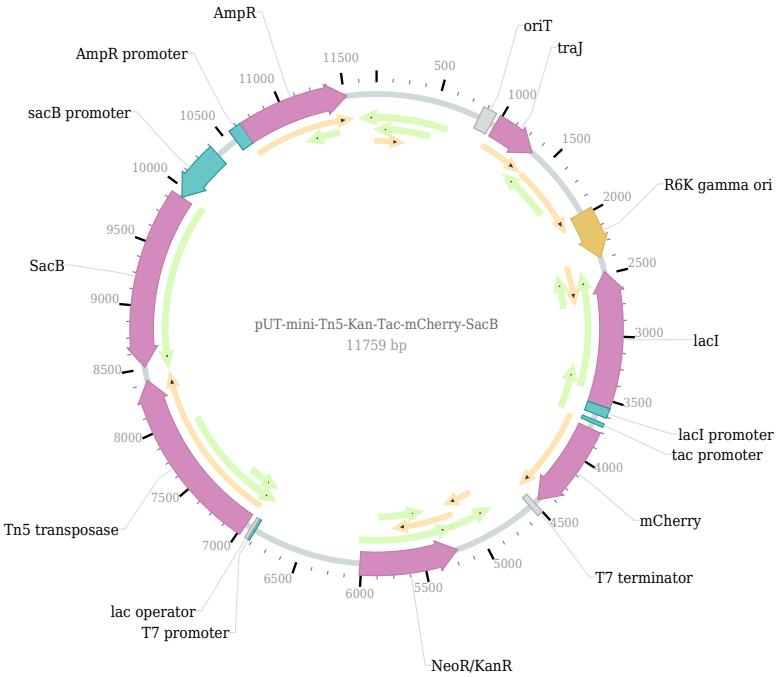
pUT-mini-Tn5-Kan-Tac-mCherry-SacB

Vector ID	V014165
Antibiotic Resistance	Ampicillin, Kanamycin
Length	11759 bp
Vector Type	Gene knockout
Host	E. coli

Product Information

Replication Origin	R6K γ ori
Copy Number	Low
Promoter	Tac
Growth Strain(s)	DH5α-λpir
Growth Temperature	37℃
Comment	pUT-mini-Tn5-Kan-Tac-mCherry-SacB is a suicide plasmid vector used for generating random chromosomal insertions in bacteria. It carries a mini-Tn5 transposon with a kanamycin resistance gene (KanR), an IPTG-inducible Tac promoter driving the mCherry fluorescent reporter gene, and the sacB gene for sucrose-based counter-selection. The vector cannot replicate in most hosts, ensuring transposition events are stabilized in the genome.

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 ℃.