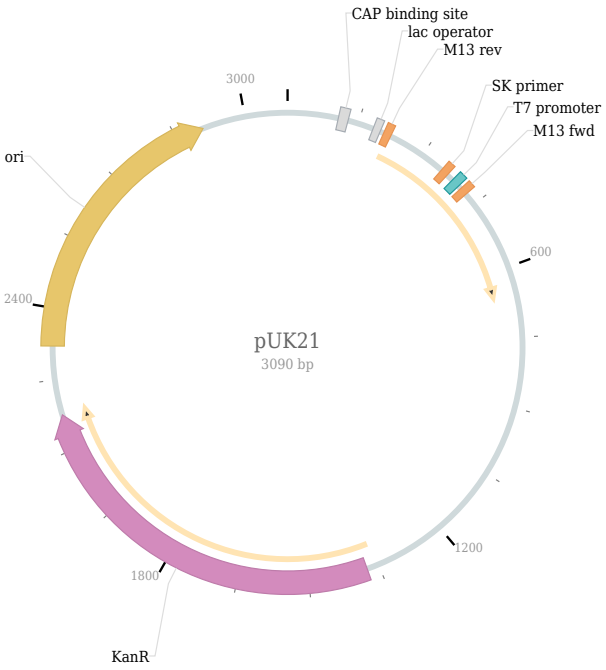
pUK21

Vector ID	V002289
Antibiotic Resistance	Kanamycin
Length	3090 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Vieira J, Messing J.
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pUK21 is a high-copy E. coli cloning vector derived from pUC21, with ampicillin resistance replaced by Tn903 kanamycin resistance marker. It carries a versatile MCS with 28 restriction enzyme sites inserted within lacZα for blue-white insert screening, plus a weakened lacZ promoter to stabilize toxic inserts. Containing M13 intergenic region, this plasmid enables helper phage-dependent single-stranded DNA production for sequencing. Its kanamycin selection marker makes it compatible for dual-vector subcloning with ampicillin-resistant pUC21.

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 ℃.