pKK223-3

Vector ID	V001042
Antibiotic Resistance	Ampicillin
Length	4585 bp
Vector Type	E. coli Expression Vectors

Product Information

Replication Origin	ori
Promoter	tac
Cloning Method	Enzyme digestion and ligation
5' Primer	P0084-F：gtgaaattgttatccgctcac
3' Primer	P0084-R：ttctgataaagcgggccatg
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pKK223-3 is a classic E. coli expression vector. It carries a tac (trp-lac) hybrid promoter, IPTG-inducible, upstream of a polylinker (multiple cloning site), followed by rrnB transcription terminators. Selectable with ampicillin. Widely used for controlled protein overexpression in bacteria.

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 ℃.