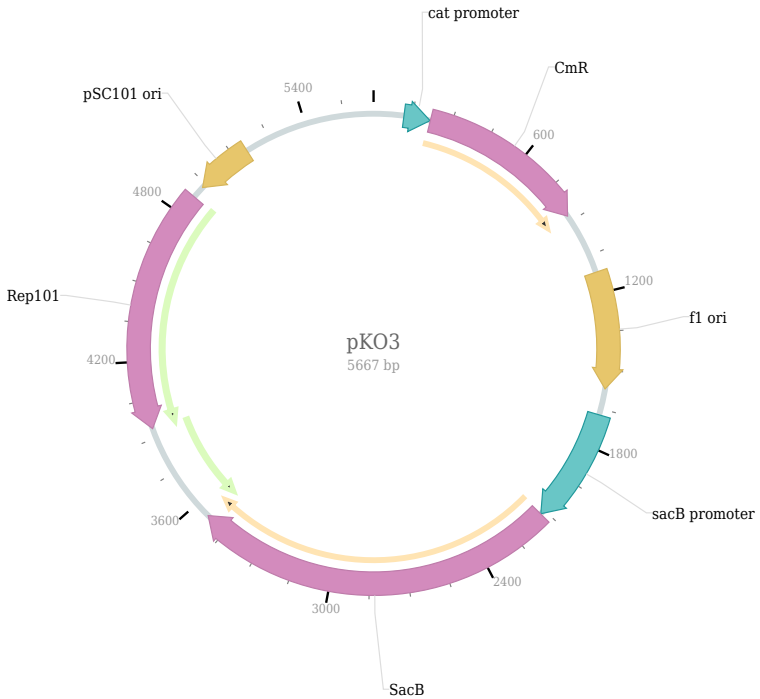
pKO3

Vector ID	V014437
Antibiotic Resistance	Chloramphenicol
Length	5667 bp
Vector Type	Genome editing
Host	E. coli

Product Information

Replication Origin	pSC101 ori
Promoter	sacB
Growth Strain(s)	Top10
Growth Temperature	30℃
Comment	pKO3 is a plasmid commonly used for gene replacement and gene knockout in bacteria, especially in Escherichia coli. Throughout the plasmid cultivation process, use only sucrose-free culture medium (animal-derived medium is preferred). Rep101(Ts) is a temperature-sensitive replication protein that functions only at low temperatures. Above 37°C, it becomes inactive, causing plasmid loss. Stable replication occurs at 30°C, >16 hours (or lower, e.g., 28–30°C). Please do not exceed 32°C.

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 ℃.