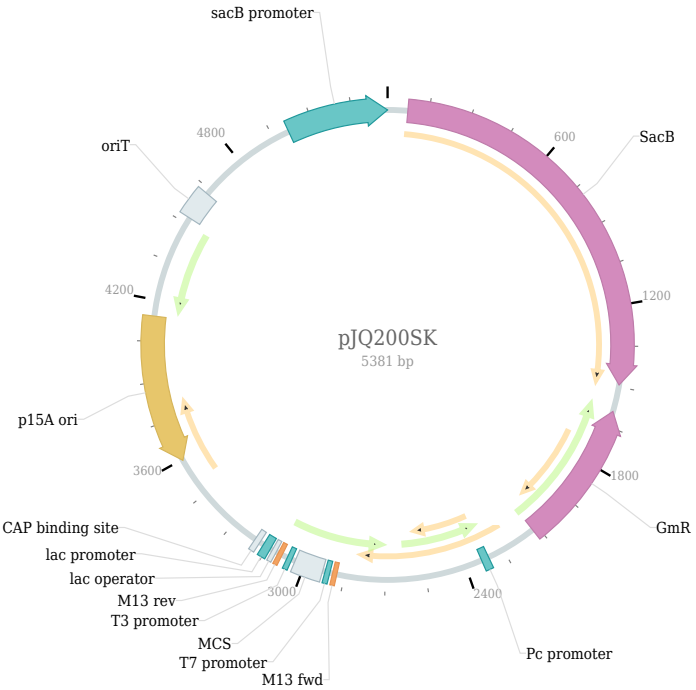
pJQ200SK

Vector ID	V012858
Antibiotic Resistance	Gentamicin
Length	5381 bp
Vector Type	Gene knockout
Host	E. coli

Product Information

Replication Origin	p15A ori
Selection Marker	SacB
Promoter	Pc
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pJQ200SK is a mobilizable suicide plasmid derived from the backbone pJQ200 for gene replacement in Gram-negative bacteria. It carries P15A ori, gentamicin resistance and counter-selectable sacB lethal gene for sucrose-based double crossover screening. Equipped with pBluescript SK MCS and partial lacZα, it enables blue-white screening of inserted DNA fragments. Its RP4 mob region allows conjugal transfer, while it cannot replicate outside enterobacteria to eliminate tedious mutant screening.

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 ℃.