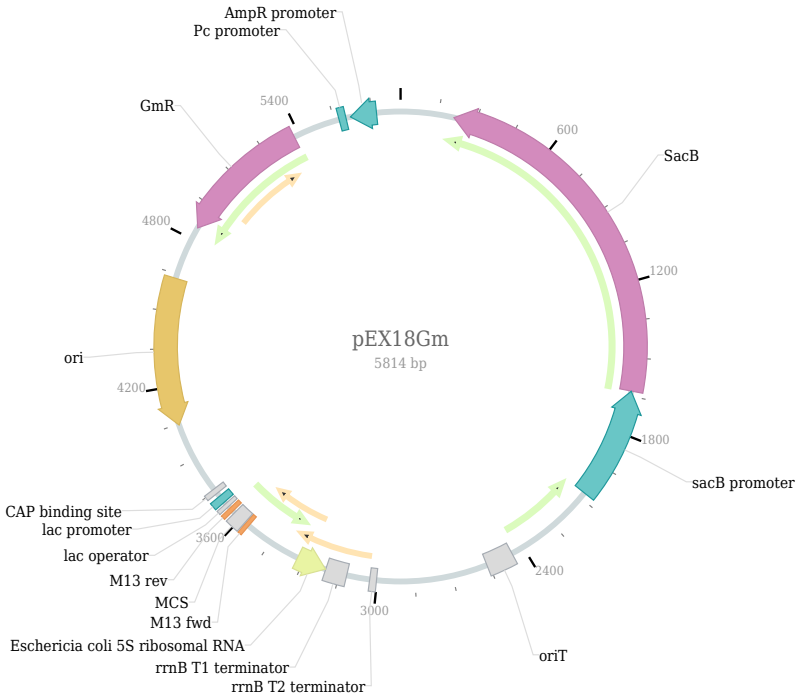
pEX18Gm

Vector ID	V006439
Antibiotic Resistance	Gentamicin
Length	5814 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Hoang TT, Karkhoff-Schweizer RR, Kutchma AJ, Schweizer HP.
Promoter	sacB
Growth Strain(s)	DH5alpha
Growth Temperature	37℃
Comment	pEX18Gm is an Escherichia coli suicide plasmid with gentamicin resistance. Similar to pK18mobsacB (a NeoR/KanR-resistant SacB suicide plasmid), pEX18Gm also contains the sacB element. In sucrose's presence, the sacB gene's expression leads to bacterial death. This property allows for screening cells that have lost the plasmid after the gene manipulation is completed.

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 ℃.