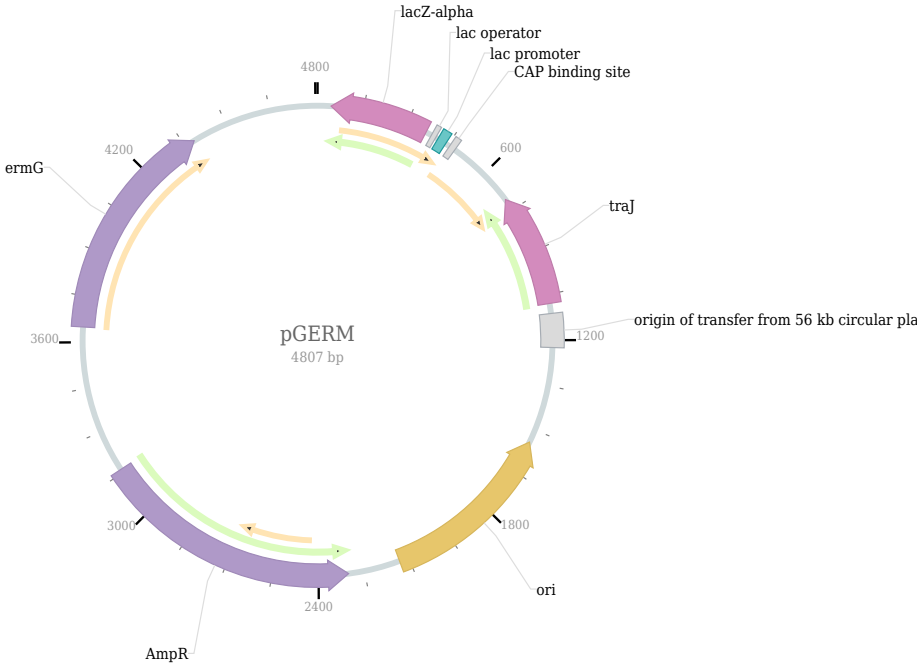
pGERM

Vector ID	V017496
Antibiotic Resistance	Ampicillin
Length	4807 bp
Vector Type	Bacteroides Plasmid

Product Information

Source/Author	Shoemaker,N.B., Wang,G.R. and Salyers,A.A.
Copy Number	High copy number
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pGERM is a suicide vector plasmid designed for gene disruption in Bacteroidesspecies and some fungi. It contains selectable markers for both E. coli(e.g., ampicillin resistance gene, bla) and the target organism (e.g., erythromycin resistance gene, ermG, for Bacteroides). It also includes an origin of transfer (oriTfrom RK2) for conjugation and a multiple cloning site. Since it cannot replicate in Bacteroides, selection for erythromycin resistance allows for the identification of clones where the plasmid has integrated into the chromosome via homologous recombination, enabling targeted gene disruption.

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 ℃.