# pKC1139

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|---|---|
| **Vector ID** | V012920 |
| **Antibiotic Resistance** | Apramycin |
| **Length** | 6708 bp |
| **Vector Type** | Gene knockout |
| **Host** | E. coli |

## Product Information

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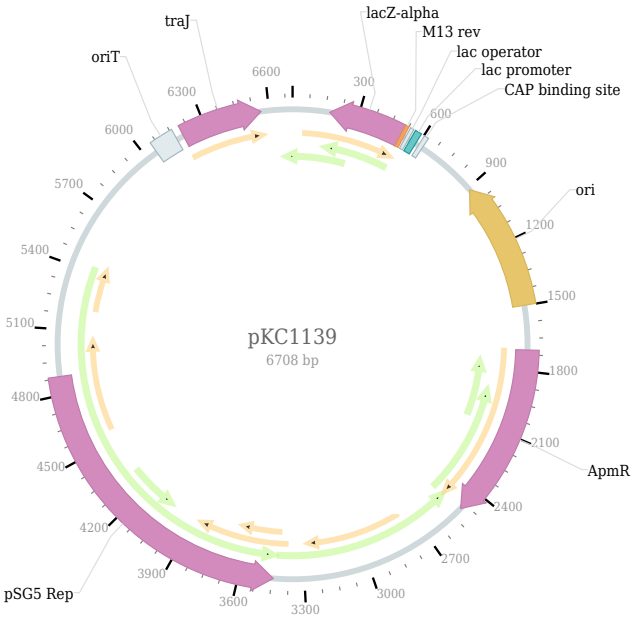
| **Replication Origin** | ori |
| **Growth Strain(s)** | DH10B |
| **Growth Temperature** | 30℃ |
| **Comment** | The plasmid pKC1139 is a temperature-sensitive, gene-disruption vector primarily used for targeted gene knockout via homologous recombination in Streptomyces and other actinomycetes. It features an apramycin resistance marker for selection and a temperature-sensitive replicon that facilitates genetic manipulation. |

## 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 ℃.