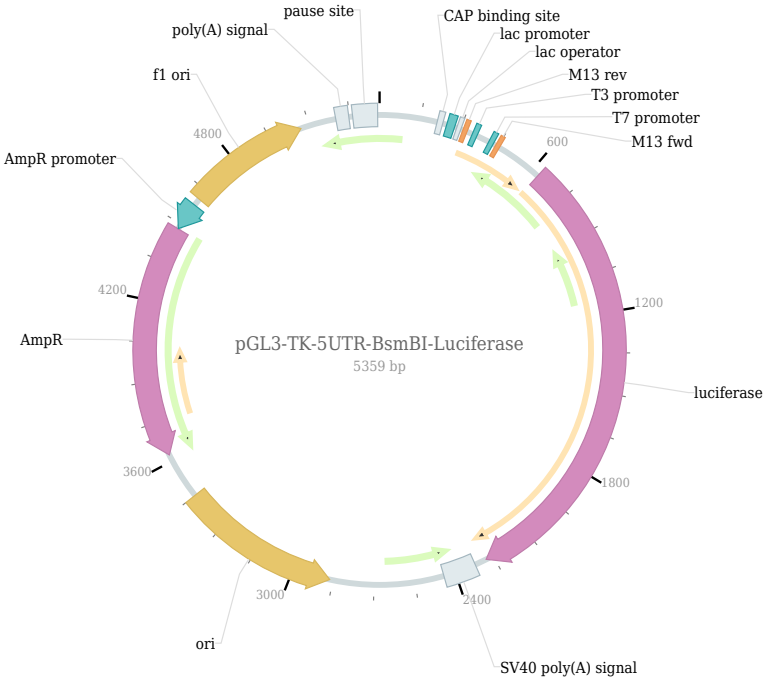
pGL3-TK-5UTR-BsmBI-Luciferase

Vector ID	V013996
Antibiotic Resistance	Ampicillin
Length	5359 bp
Vector Type	Luciferase reporter
Host	Mammalian cells

Product Information

Replication Origin	ori
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pGL3 - TK - 5UTR - BsmBI - Luciferase is an important tool for gene expression regulation research. It uses luciferase activity to show the impact of 5′UTRs on gene expression and has wide applications. Its vector construction includes a luciferase reporter gene, a TK promoter for driving transcription in various cell types, and BsmBI cloning sites for inserting 5′UTR fragments. Functional advantages are studying gene expression regulation mechanisms of different genes' 5′UTRs by detecting luciferase activity in cells, like in breast cancer - related genes research, and being suitable for high - throughput screening experiments to quickly identify significant 5′UTRs or regulatory elements for gene regulation network research.

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 ℃.