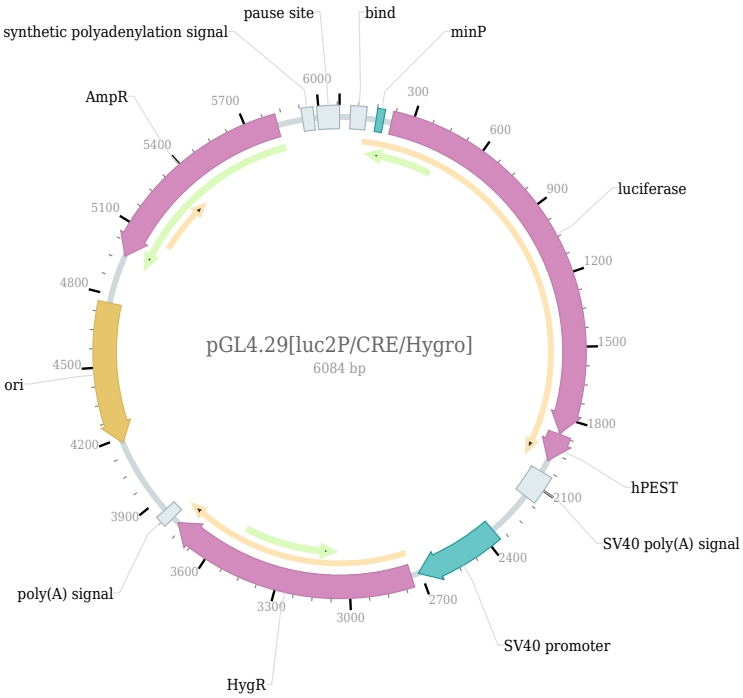
pGL4.29[luc2P/CRE/Hygro]

Vector ID	V011521
Antibiotic Resistance	Ampicillin
Length	6084 bp
Vector Type	Luciferase Vectors

Product Information

Replication Origin	ori
Source/Author	Promega
Copy Number	High copy number
Promoter	minP
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pGL4.29[luc2P/CRE/Hygro] is a mammalian reporter plasmid designed for studying cAMP-responsive signaling pathways. It contains a cAMP response element (CRE) that controls the expression of the luc2P gene, an optimized firefly luciferase. The luc2P protein includes a destabilizing hPEST sequence, enabling rapid response to induction. The vector carries an ampicillin resistance gene for bacterial selection in E. coliand a hygromycin resistance marker for selection in mammalian cells.

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 ℃.