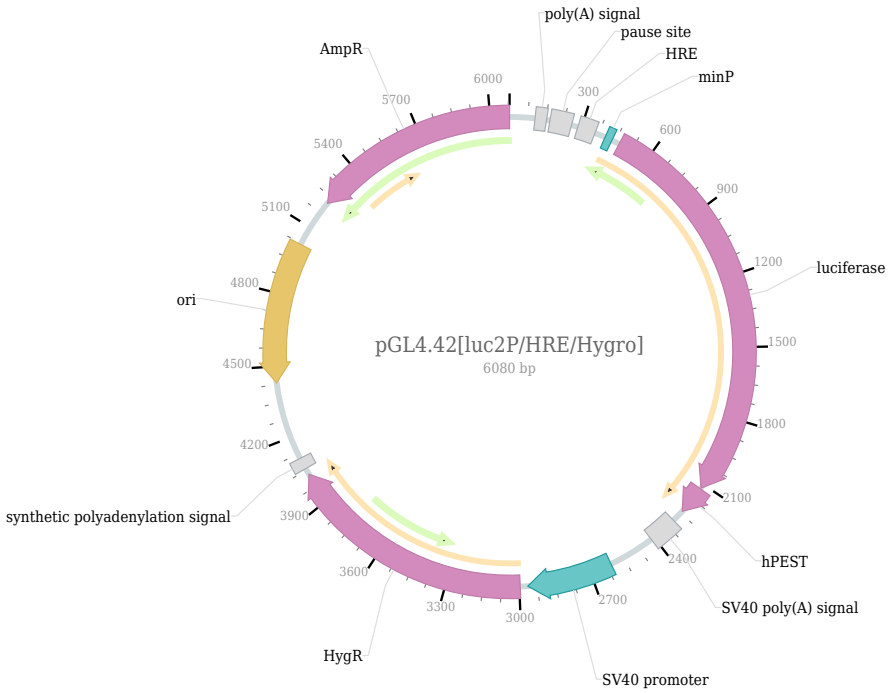
pGL4.42[luc2P/HRE/Hygro]

Vector ID	V011508
Antibiotic Resistance	Ampicillin
Length	6080 bp
Vector Type	Luciferase Vectors

Product Information

Replication Origin	ori
Source/Author	Promega
Copy Number	High copy number
Promoter	minP
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	The pGL4.42[luc2P/HRE/Hygro] is a mammalian reporter plasmid designed to study hypoxia signaling. It contains four copies of the hypoxia response element (HRE) controlling the expression of an optimized firefly luciferase gene (luc2P). The luc2P gene includes a protein-destabilizing sequence (hPEST) for rapid response to transcriptional changes. The vector also contains a hygromycin resistance gene for selection in mammalian cells and an ampicillin resistance gene for propagation in E. coli.

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 ℃.