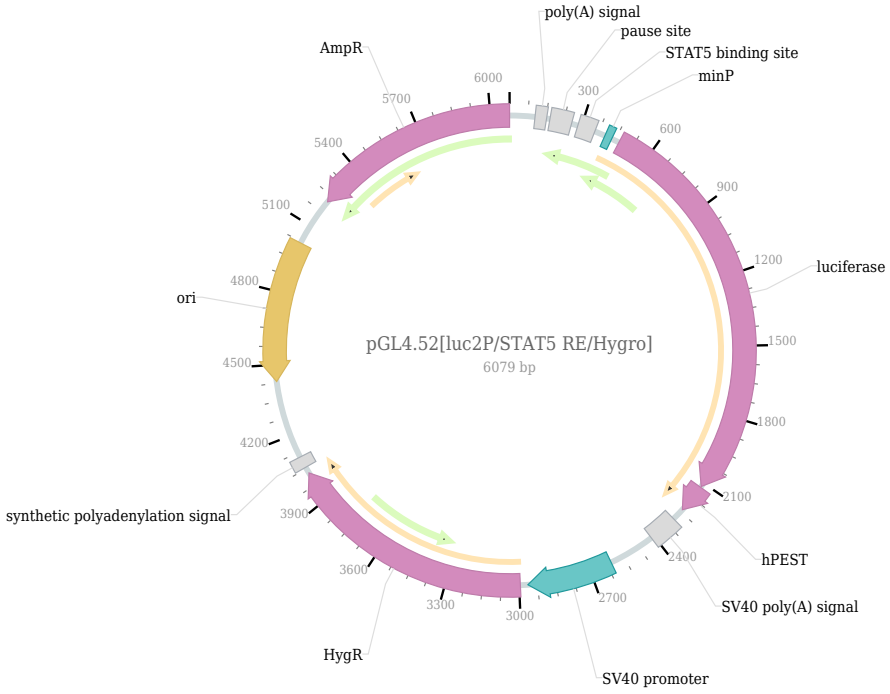
pGL4.52[luc2P/STAT5 RE/Hygro]

Vector ID	V011499
Antibiotic Resistance	Ampicillin
Length	6079 bp
Vector Type	Luciferase Vectors

Product Information

Replication Origin	ori
Source/Author	Promega
Copy Number	High copy number
Promoter	minP
Growth Strain(s)	DH10B
Comment	pGL4.52[luc2P/STAT5 RE/Hygro] is a cytokine-signaling reporter containing five copies of the STAT5 response element upstream of a minimal promoter driving the destabilized luc2P (hPEST) firefly luciferase. It quantifies STAT5 activation (e.g., IL-3/JAK signaling) in responsive cells, with hygromycin for stable selection and AmpR for bacterial propagation.

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 ℃.