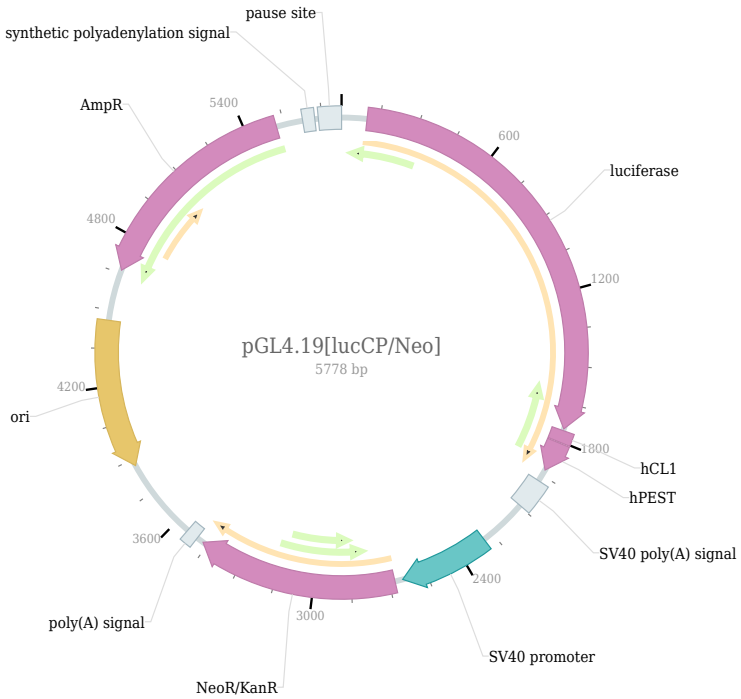
pGL4.19[lucCP/Neo]

Vector ID	V001210
Antibiotic Resistance	Ampicillin
Length	5778 bp
Vector Type	Promoter Reporter Vectors

Product Information

Replication Origin	ori
Selection Marker	Neomycin
Cloning Method	Enzyme digestion and ligation
Comment	The pGL4.19[luc2CP /Neo] Vector(a–e) encodes the luciferase reporter gene luc2CP (Photinus pyralis) and is designed for high expression and reduced anomalous transcription. This vector also contains a mammalian selectable marker for neomycin resistance in which the number of transcription factor binding sites has been reduced and mammalian codon usage optimized. This vector is engineered with fewer consensus regulatory sequences for reduced background and a decreased risk of anomolous transcription and has a synthetic reporter gene, which has been codon optimized for mammalian expression.The pGL4.19[luc2CP /Neo] Vector is a basic vector with no promoter. However, it contains a multiple cloning region that allows cloning of a promoter of choice. The luc2CP reporter gene contains two protein destabilization sequences, hCL1 and hPEST. The protein encoded by luc2CP responds more quickly and with greater magnitude to changes in transcriptional activity than the luc2 gene, its more stable counterpart.

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 ℃.