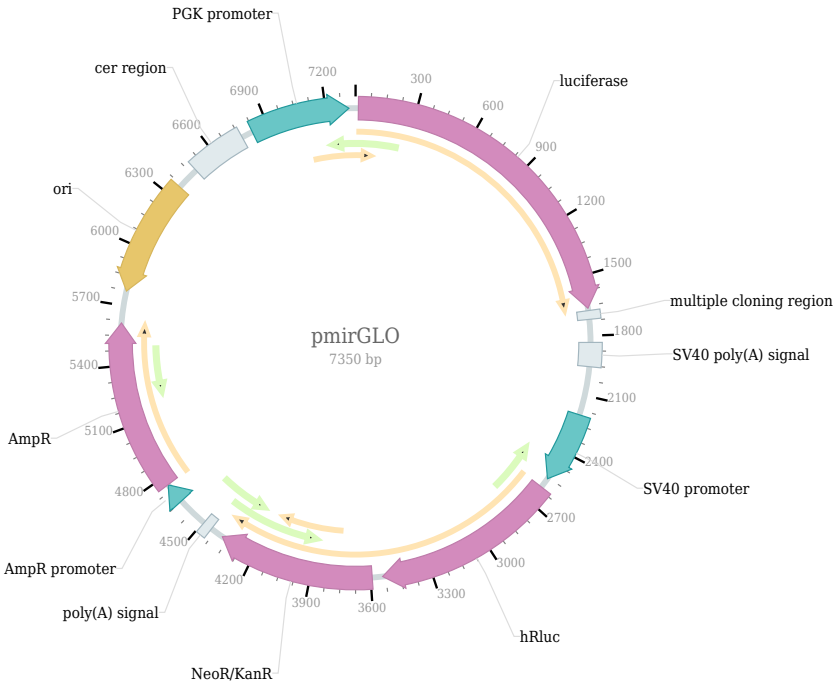
pmirGLO

Vector ID	V011462
Antibiotic Resistance	Ampicillin
Length	7350 bp
Vector Type	Luciferase Vectors

Product Information

Replication Origin	ori
Source/Author	Promega
Selection Marker	Neomycin/G418(Geneticin)
Copy Number	High copy number
Promoter	mPGK
Comment	The pmirGLO Vector was designed to quantitatively assess miRNA activity, which is achieved by inserting the target sequence of the miRNA downstream or at the 3' end of the firefly luciferase gene (luc2). Reduced expression of firefly luciferase, the primary reporter gene, implies that endogenous or exogenously introduced miRNAs bind to the target sequence of the cloned miRNA. This vector is based on Promega's dual reporter gene technology, with the firefly luciferase gene (luc2) as the primary reporter gene to monitor mRNA regulation and the sea kidney luciferase gene (hRluc-neo) as the control reporter gene for normalization and positive screening.

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 ℃.