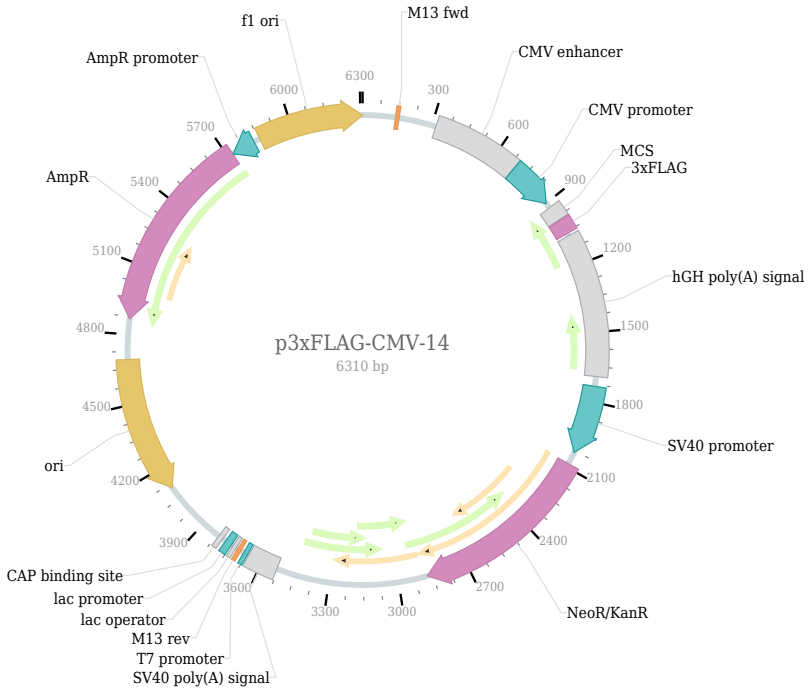
p3xFLAG-CMV-14

Vector ID	V011361
Antibiotic Resistance	Ampicillin
Length	6310 bp
Vector Type	Mammalian Expression Vectors

Product Information

Replication Origin	ori
Source/Author	Sigma-Aldrich
Selection Marker	Neomycin/G418(Geneticin)
Copy Number	High copy number
Promoter	CMV
Cloning Method	Enzyme digestion and ligation
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	p3xFLAG-CMV-14 is a mammalian expression vector designed for the constitutive expression of a target protein in mammalian cells. p3xFLAG-CMV-14 features the strong cytomegalovirus (CMV) promoter to drive high levels of gene expression. The multiple cloning site (MCS) contains three FLAG tags, allowing for easy detection and immunoprecipitation of the expressed protein. Additionally, the vector includes the SV40 origin of replication, enabling efficient replication in mammalian cells. The ampicillin resistance gene confers resistance to ampicillin, facilitating selection of transformed cells. p3xFLAG-CMV-14 is commonly used in protein overexpression studies, subcellular localization analysis, and protein-protein interaction assays in mammalian cell culture systems.

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 ℃.