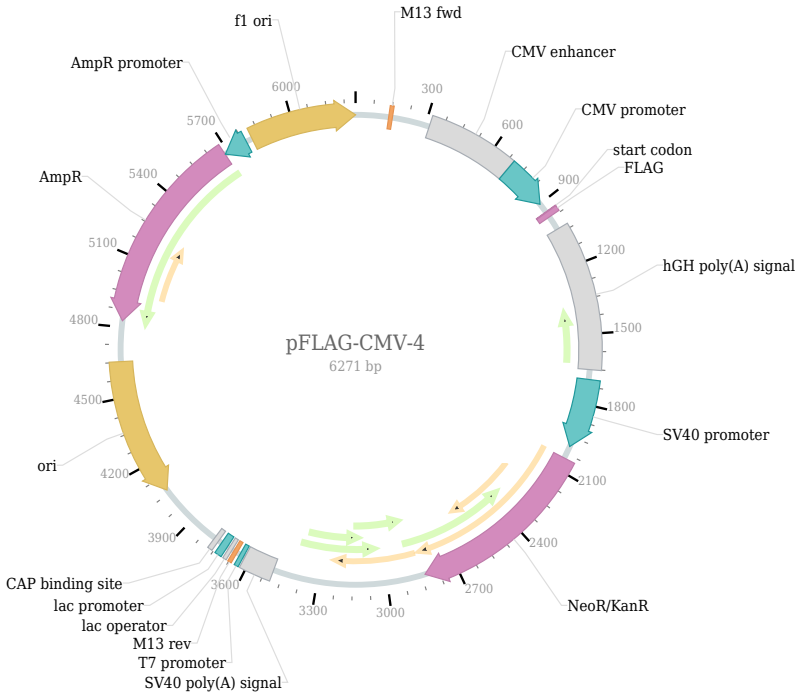
pFLAG-CMV-4

Vector ID	V011137
Antibiotic Resistance	Ampicillin
Length	6271 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
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	Top 10
Growth Temperature	37℃
Comment	pFLAG-CMV-4 is a 6.2 kb mammalian expression vector designed for transient or stable intracellular expression of N-terminal FLAG-tagged fusion proteins. It utilizes the strong human cytomegalovirus (CMV) promoter and contains an aminoglycoside phosphotransferase (neoR) gene for selection with G418 in mammalian cells. As a shuttle vector, it carries both a bacterial origin of replication and an SV40 origin, allowing propagation in E. coli(with ampicillin resistance) and mammalian cells. The encoded FLAG epitope (DYKDDDDK) enables sensitive detection and purification of the recombinant protein.

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 ℃.