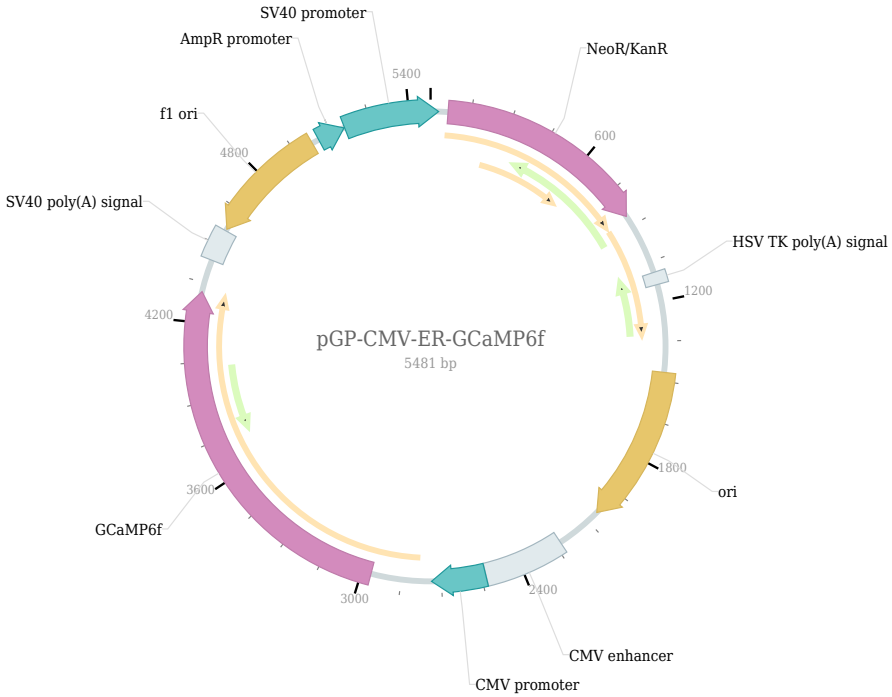
pGP-CMV-ER-GCaMP6f

Vector ID	V045341
Antibiotic Resistance	Kanamycin
Length	5481 bp
Vector Type	Protein expression, Subcellular localization
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418;GCaMP6f
Copy Number	High
Promoter	CMV
5' Primer	CMV-F
Growth Strain(s)	DH10B
Growth Temperature	37℃
Expression Method	Transient
Comment	pGP-CMV-ER-GCaMP6f is a 5481 bp mammalian expression vector.It is designed for expressing the GCaMP6f calcium indicator gene, driven by a strong CMV promoter along with an SV40 promoter. A NeoR/KanR gene under the HSV TK poly(A) signal allows for antibiotic selection. The vector also includes an f1 ori for single-stranded DNA production and an AmpR/ori cassette 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 ℃.