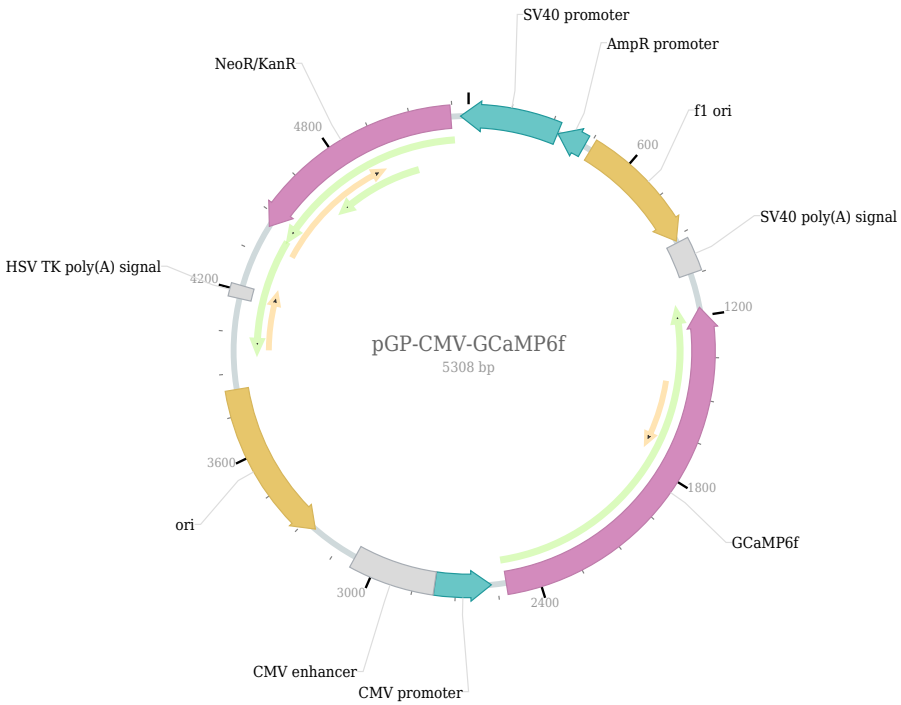
pGP-CMV-GCaMP6f

Vector ID	V012148
Antibiotic Resistance	Kanamycin
Length	5308 bp
Vector Type	Mammalian Expression

Product Information

Replication Origin	ori
Selection Marker	Neomycin (select with G418)
Copy Number	High Copy
Promoter	CMV
Cloning Method	Restriction Enzyme
5' Primer	CMV Forward
3' Primer	SV40pA-R
Growth Strain(s)	DH10B
Comment	pGP-CMV-GCaMP6f enables real-time monitoring of intracellular calcium signalling dynamics by driving GCaMP6f calcium indicator expression via the CMV promoter, thereby facilitating the elucidation of physiological and pathological mechanisms involving calcium regulation.

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 ℃.