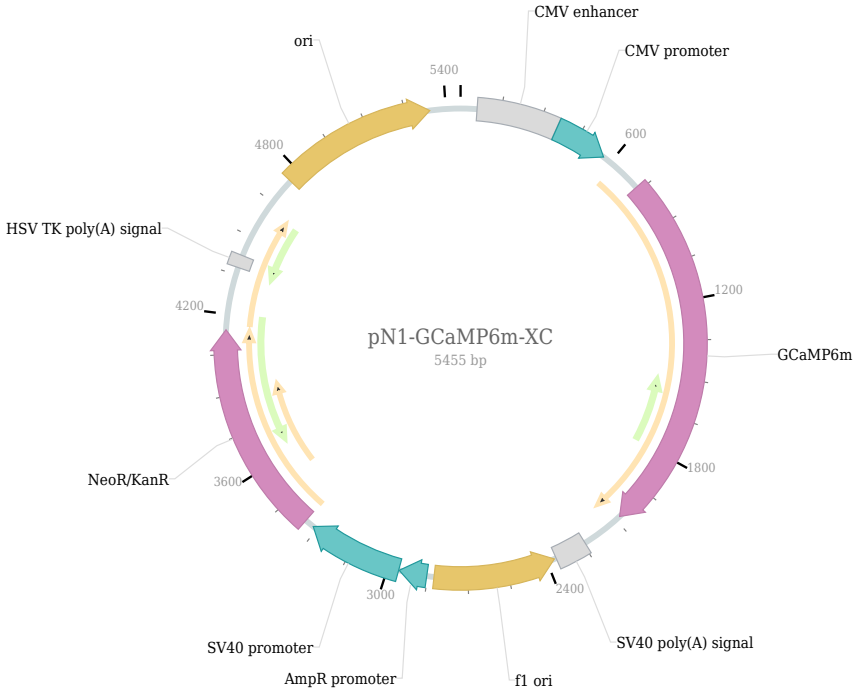
pN1-GCaMP6m-XC

Vector ID	V017352
Antibiotic Resistance	Kanamycin
Length	5455 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	CMV
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pN1-GCaMP6m-XC is a pEGFP-N1–based mammalian expression plasmid encoding GCaMP-X, an improved GCaMP6m calcium sensor with shielded calmodulin. It reports intracellular Ca^{2+} dynamics while overcoming GCaMP-induced calcium channel perturbations.

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 ℃.