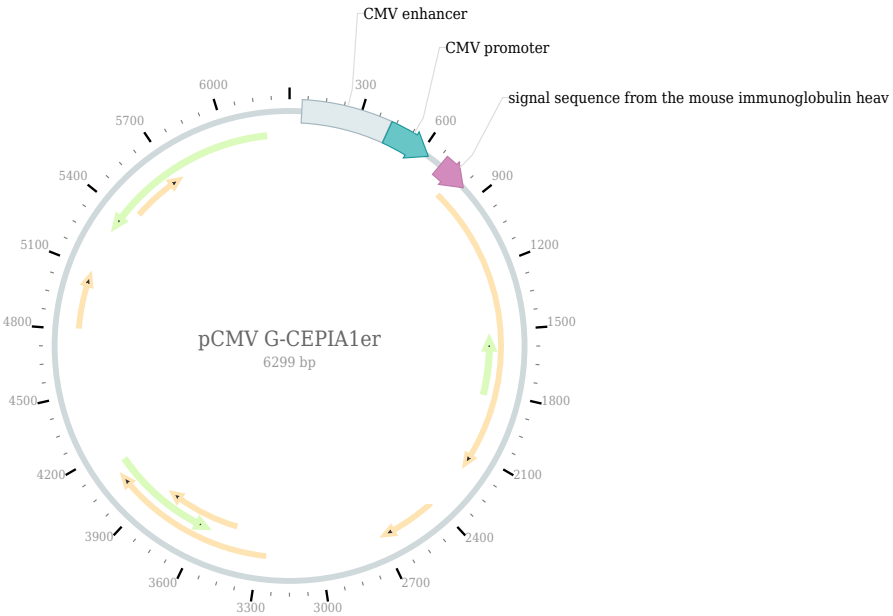
pCMV G-CEPIA1er

Vector ID	V039105
Antibiotic Resistance	Ampicillin
Length	6299 bp
Vector Type	Subcellular localization
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Copy Number	High
Promoter	CMV
3' Primer	BGH-R
Growth Strain(s)	DH5a
Growth Temperature	37℃
Expression Method	Transient
Comment	pCMV G-CEPIA1er is a mammalian expression plasmid for ER-specific Ca^{2+} detection, encoding a green fluorescent indicator that precisely reports intra-ER Ca^{2+} dynamics with high spatiotemporal resolution.

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 ℃.