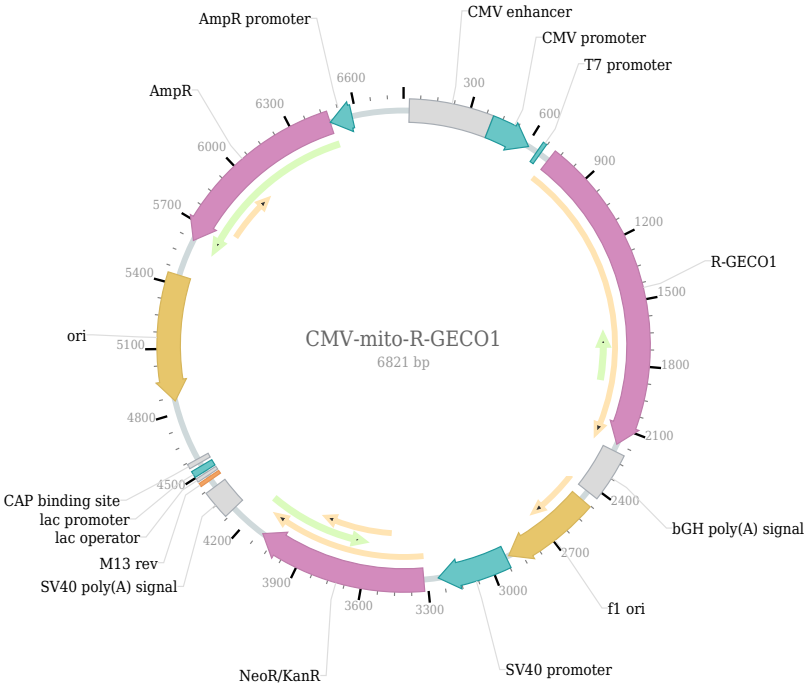
CMV-mito-R-GECO1

Vector ID	V017123
Antibiotic Resistance	Ampicillin
Length	6821 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	CMV
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	This CMV-mito-R-GECO1 plasmid expresses mitochondria-targeted red calcium sensor R-GECO1 under CMV promoter, enabling real-time fluorescent detection of mitochondrial Ca^{2+} dynamics in mammalian cells.

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 ℃.