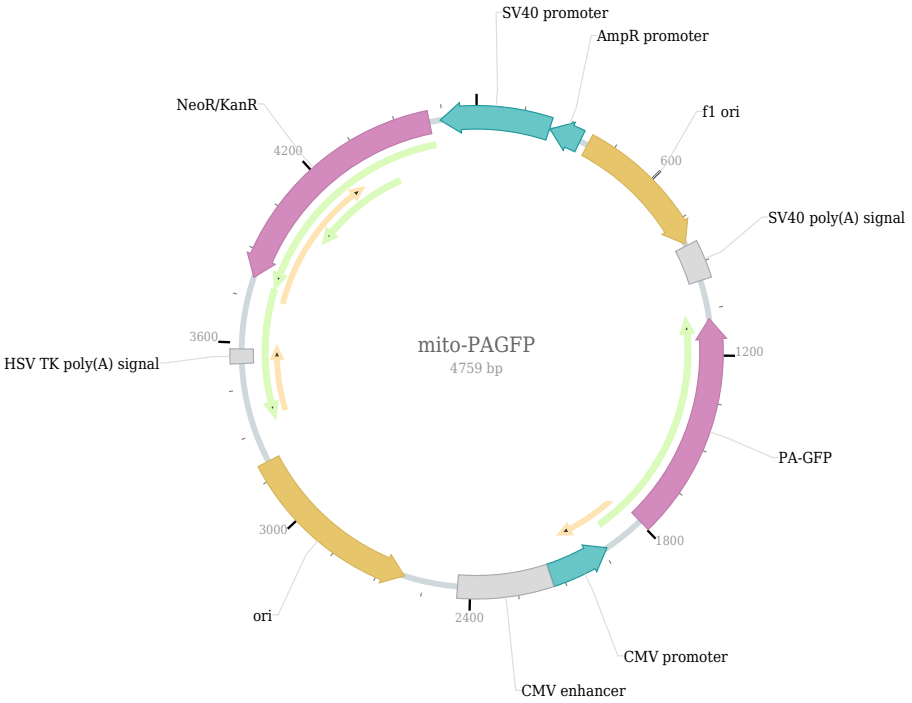
mito-PAGFP

Vector ID	V006707
Antibiotic Resistance	Kanamycin
Length	4759 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
Comment	The mito-PAGFP is a mammalian expression vector encoding a photoactivatable GFP fused to the COX VIII mitochondrial targeting sequence, enabling spatiotemporal labeling of the mitochondrial matrix to track organelle fusion and dynamics in live 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 ℃.