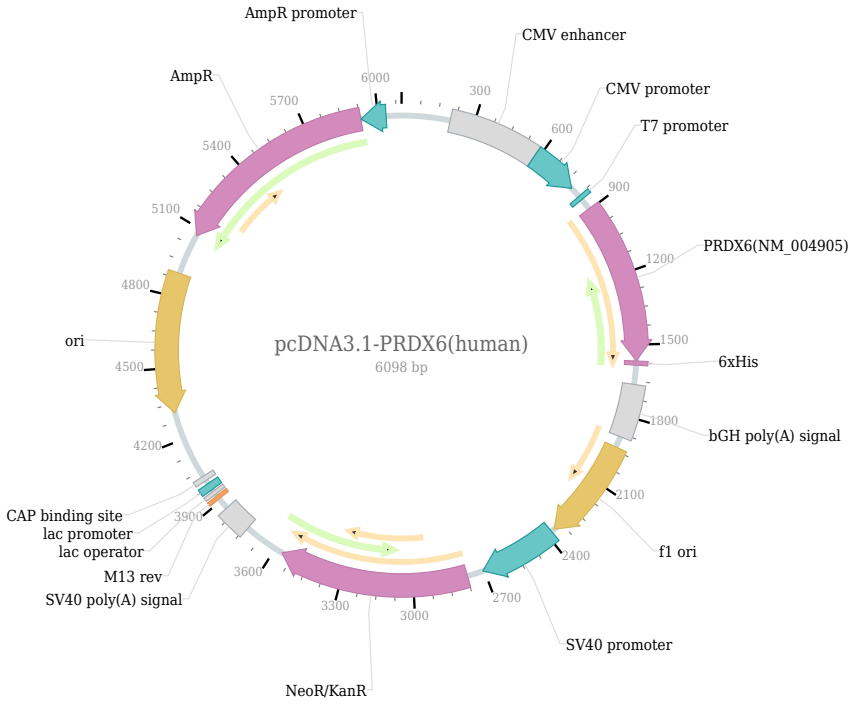
pcDNA3.1-PRDX6(human)

Vector ID	V018572
Accession ID	NM_004905.3
Antibiotic Resistance	Ampicillin
Length	6098 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418
Promoter	CMV
Expression Method	Transient
Comment	pcDNA3.1-PRDX6(human) is a mammalian expression vector encoding human peroxiredoxin 6 (PRDX6) in pcDNA3.1. Used to study this dual glutathione peroxidase/phospholipase A2 antioxidant enzyme; overexpression protects ARPE-19 cells from oxidative damage via PI3K/AKT signaling (Zha et al. 2015).

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 ℃.