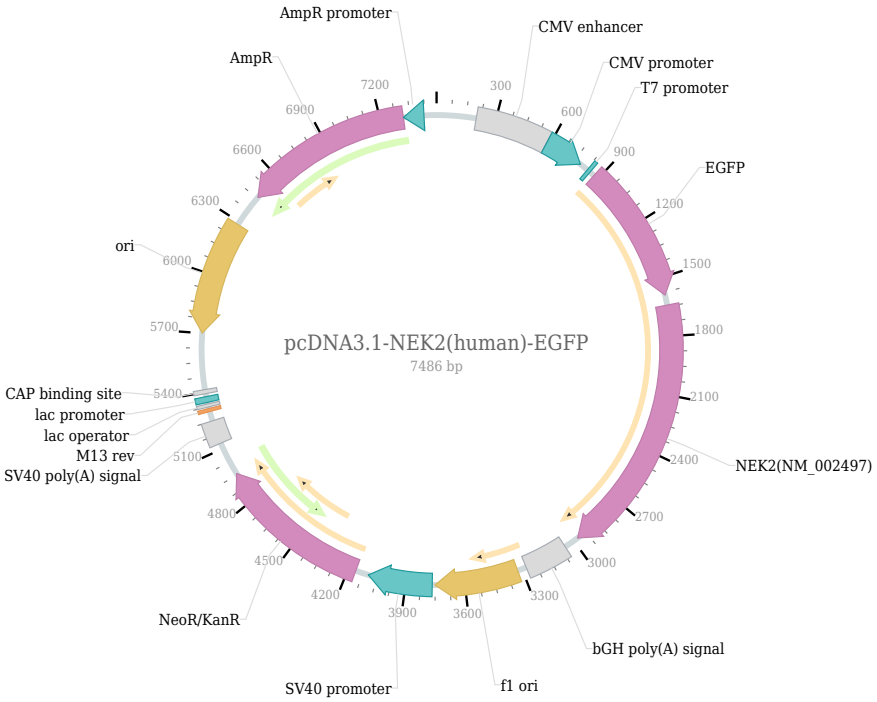
pcDNA3.1-NEK2(human)-EGFP

Vector ID	V035059
Accession ID	NM_002497.4
Antibiotic Resistance	Ampicillin
Length	7486 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418;EGFP
Copy Number	High copy number
Promoter	CMV
Fusion Tag	EGFP
Growth Strain(s)	DH5a
Growth Temperature	37℃
Expression Method	Transient
Comment	pcDNA3.1-NEK2-EGFP is a mammalian expression vector for visualizing human NEK2 (NIMA-related kinase 2) localization in live cells. A CMV promoter drives expression of full-length NEK2 (NM_002497) fused with C-terminal EGFP, enabling direct fluorescence tracking of this mitotic regulator. The vector also includes NeoR/KanR (G418 resistance) for stable selection, AmpR for bacterial selection, pUC ori (high-copy), f1 ori, SV40 promoter/poly(A), bGH poly(A), and M13 priming sites.

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 ℃.