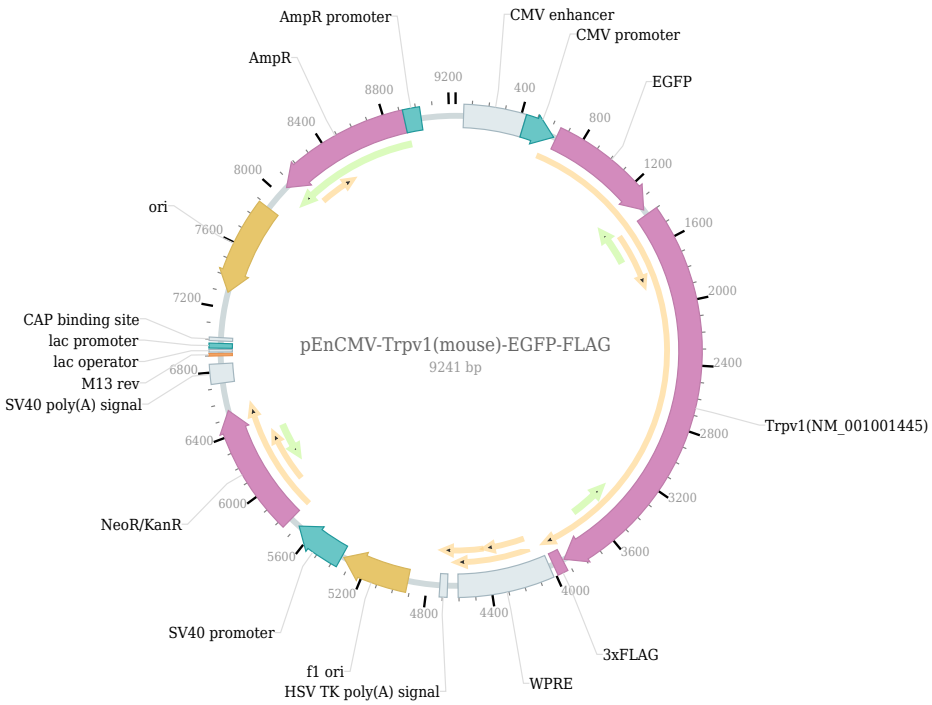
pEnCMV-Trpv1(mouse)-EGFP-FLAG

Vector ID	V023367
Accession ID	NM_001001445.2
Antibiotic Resistance	Ampicillin
Length	9241 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418;EGFP
Promoter	CMV
Fusion Tag	EGFP-FLAG
Growth Strain(s)	DH10B
Expression Method	Transient
Comment	pEnCMV-Trpv1(mouse)-EGFP-FLAG drives expression of mouse Trpv1 (transient receptor potential cation channel subfamily V member 1), a non-selective calcium-permeant cation channel that acts as a molecular transducer for noxious thermal and chemical stimuli to mediate pain sensation and inflammatory hyperalgesia, with a C-terminal EGFP fluorescent tag and a 3xFLAG tag for convenient live-cell imaging and immunodetection. This vector features a CMV enhancer/promoter for robust transgene expression and includes a WPRE element to enhance expression efficiency, along with an SV40 promoter driving NeoR/KanR for antibiotic selection.

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 ℃.