

pCMV-GFP-KIFC2 Expression Vector

CATALOG NUMBER: AKR-510

STORAGE: -80°C

QUANTITY AND CONCENTRATION: 100 µl of bacterial glycerol stock

Background

This construct encodes eGFP fused internally to the gene coding for KIFC2, a 792 amino acid neuron-specific protein containing the conserved motor domain at the C-terminus. KIFC2 is present in axons and dendrites of neurons in the central and peripheral nervous systems. KIFC2 localizes with some, but not all, axonally transported organelles. KIFC2 was immunofluorescently localized to punctate structures in cell bodies and dendrites. KIFC2 associates with multivesicular body (mvb)-like organelles, suggesting that KIFC2 functions as the motor for the transport of mvb-like organelles in dendrites.

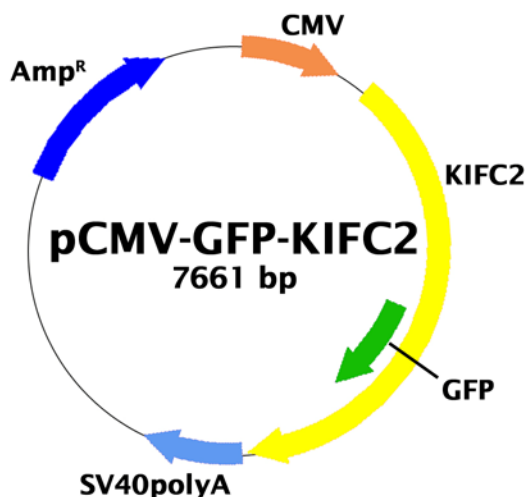


Figure 1. Schematic representation of pCMV-GFP-KIFC2.

pCMV-GFP-KIFC2 Plasmid Sequence

119-541: SV40polyA
 1420-2280: Ampicillin Resistance Gene
 3542-4131: CMV Promoter
 4287-5906: KIFC2
 5907-6669: EGFP
 6670-7459: KIFC2

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