

Product datasheet for **RC239502**

KIF6 (NM_001289021) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF6 (NM_001289021) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF6
Synonyms:	C6orf102; dj137F1.4; dj188D3.1; dj1043E3.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239502 representing NM_001289021
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGTGAAGCAGACTATCCAGATATTCGCGAGGGTGAAGCCCCCTGTCCGGAAGCACCAACAAGGGATT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC239502 representing NM_001289021
 Red=Cloning site Green=Tags(s)

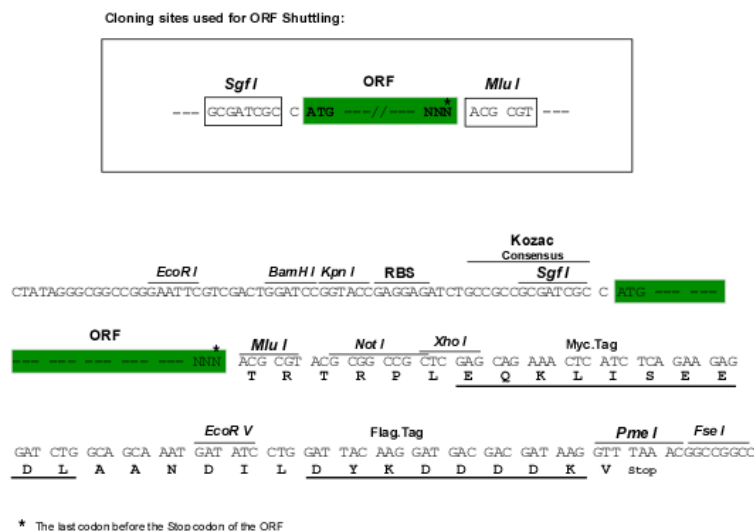
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 LNEEINPRLVIKRLQKEIQELKDELAMVTGEQRTEALTEALLQLEKLITSFLEDQSDSDRLEVGAADMRK
 VHHCFHLLKKLLNDKKILENNTVSSSEKQDCQEPLKEEYRKLRLDILKQRDNEISILSEVMKKLPLSWF
 ERGMREEMSLGCQEAEIFKRDHDSVTIDDNKQILKQRFSEAKALGESINEARSKIGHLKEEITQRHIQ
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 AEEATNLQVNSPAVNSLDHTKPFLQTSDSQHEWSQLLSNKSSGGWEVQDQGTGRFDVCDVNARKILPSPC
 PSPHSQKQSSTSTPLEDSIPKRPVSSIPLTGDSQTDSDIIAFIKARQSILQKQCLGSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001289021

ORF Size: 2274 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001289021.3](#)

RefSeq Size: 3804 bp

RefSeq ORF: 2277 bp

Locus ID: 221458

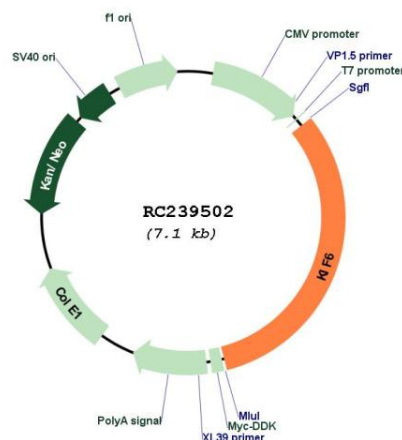
Cytogenetics: 6p21.2

Protein Families: Druggable Genome

MW: 86.7 kDa

Gene Summary: This gene encodes a member of a family of molecular motors which are involved in intracellular transport of protein complexes, membrane organelles, and messenger ribonucleic acid along microtubules. Kinesins function as homodimeric molecules with two N-terminal head domains that move along microtubules and two C-terminal tail domains that interact with the transported cargo, either directly or indirectly, through adapter molecules. This gene is ubiquitously expressed in coronary arteries and other vascular tissue. A naturally occurring mutation in this gene is associated with coronary heart disease. [provided by RefSeq, May 2017]

Product images:



Circular map for RC239502