

Product datasheet for SC103766

KIF21A (NM_017641) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF21A (NM_017641) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF21A
Synonyms:	CFEOM1; FEOM1; FEOM3A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC103766 sequence for NM_017641 edited (data generated by NextGen Sequencing)

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ATGTTGGGCGCCCGGACGAGAGCTCCGTGCGGGTGGCTGTCAGAATAAGACCACAGCTT
GCCAAAGAGAAGATTGAAGGATGCCATATTTGTACATCTGTCACACCAGGAGAGCCTCAG
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GAGAACCTTCGAAAAAATTGACAAGAGCCACAGCAAGAGCGCCATATTTTCAGCGGATCA
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 CGCAATTTGCAAGATGGTCAGATCTCTGACACAGGAGATCTGGGGGAAGATATTGCCAGT
 AATTAA

Clone variation with respect to NM_017641.3

3909 a=>n;3910 t=>n;3911 c=>n;3912 c=>n;3913 t=>n;3914 c=>n;3915 c=>n;3916 a=>n;3917
 g=>n;3918 a=>n

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_017641 unedited
 TTGCACCTTTTGTATACGACTCATATAGGCGGCNCGGAATTCGCACGAGGCTGGGAGGC
 CGCGTCCCACCCAGNAGGGGCGAGGGCGCACTACCCGGCCGCCCTGAGGCCGCTGGCGGC
 CTGTTGGCTTCTCCACAGGCGCGCTCGCCGTTCAAGCGCGCTTTGTCCCCGCCCCAGATC
 CTGGGGGTGAGCGGTGGAGAAGGGGCGGGCGCCCGAGCCGTGAATCACCTCCTCCTC
 TTGCTGCCTCAGCGCCGCCACCTTTCCATTAGTCGCCCAACATGGCTGGAGCGCGG
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 CCCCAGTGGCGCCTCAGCTCTGCGGTGCCGAGGCCAACGGCTCGATCGTCCCGCCGC
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 GCTTGCCAAAGAGAAGATTGAAGGATGCCATATTTGTACATCTGTACACCAGGAGAGCC
 TCAGGTCTTCTAGGGAAAGATAAGGCTTTTACTTTTGACTATGTATTTGACATTGACTC
 CCAGCAAGAGCAGATCTACATTCATGTATAGAAAACTAATTGAAGGTTGCTTTGAAGG
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 AACAGGATTTGATGTTAACATTGTTGAGGAAGAACTGGGTATTATTTCTCGAGCTGTTAA
 CACCTTTTAAAGATTTTGAAGAAAAACACATAGCCATTAATAATGGGCTTTCTGCTCCAG
 ATTTAAAGTTGATGCCCATTTCTAGACTCTTTATGAAGAGTCTTGACTATTTGATACAC
 TCGGGATTTGATGCAAAAGTAAAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_017641

Insert Size:

6000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

RefSeq:

[NM_017641.2](#), [NP_060111.2](#)

RefSeq Size: 6335 bp

RefSeq ORF: 4986 bp

Locus ID: 55605

UniProt ID: [Q7Z4S6](#)

Cytogenetics: 12q12

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the KIF4 subfamily of kinesin-like motor proteins. The encoded protein is characterized by an N-terminal motor domain a coiled-coil stalk domain and a C-terminal WD-40 repeat domain. This protein may be involved in microtubule dependent transport. Mutations in this gene are the cause of congenital fibrosis of extraocular muscles-1. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010]

Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.