

## Product datasheet for **SC108713**

### **KIF18A (NM\_031217) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIF18A (NM_031217) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF18A
Synonyms:	MS-KIF18A; PPP1R99
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC108713 sequence for NM\_031217 edited (data generated by NextGen Sequencing)

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ATGTCTGCTCACTGAGGAAGACCTGTGCCACCATATGAAAGTAGTAGTTCGTGTACGTCCG
GAAAACACTAAAGAAAAAGCAGCTGGATTTTCATAAAGTGGTTCATGTTGTGGATAAACAT
ATCCTAGTTTTTATCCCAAACAAGAAGAAGTCAGTTTTTCCATGGAAGAAAACTACA
AATCAAAATGTTATAAAGAAAACAAAATAAGGATCTTAAATTTGTATTTGATGCTGTTTT
GATGAAACGTCAACTCAGTCAGAAGTTTTGAACACACTACTAAGCCAATTCCTCGTAGT
TTTTTGAATGGATATAATTGCACAGTACTTGCCTATGGTGCCACTGGTGCTGGGAAGACC
CACACTATGCTAGGATCAGCTGATGAACCTGGAGTGATGTATCTAACAATGTTACACCTT
TACAAATGCATGGATGAGATTAAGAAGAGAAAATATGTAGTACTGCAGTTTCATATCTG
GAGGTATATAATGAACAGATTCTGTATCTTAGTAAATTCAGGGCCACTTGCTGTCGG
GAAGATACCCAAAAAGGGTGGTTCATGGACTTACTTTACACCAGCCAAATCCTCA
GAAGAAATTTTACATTTATTGGATAATGGAACAAAAACAGGACACAACATCCCCTGAT
ATGAATGCCACATCTTCTCGTTCTCATGCTGTTTTCCAAATTTACTTGCACAACAAGAC
AAAACAGCAAGTATCAATCAAAATGTCCGTATTGCCAAGATGTCACTCATTGACCTGGCA
GGATCTGAGCGAGCAAGTACTTCCGGTGCTAAGGGGACCCGATTTGTAGAAGGCACAAAT
ATTAATAGATCACTTTTAGCTCTTGGGAATGTCATCAATGCCTTAGCAGATTCAAAGAGA
AAGAATCAGCATATCCCTTACAGAAATAGTAAGCTTACTCGCTTGTAAAGGATTCTCTT
GGAGGAACTGTCAAATAATGATAGCTGCTGTTAGTCCCTCTCTGTATTCTACGAT
GACACATAAACACTCTTAAGTATGCTAACCGGCAAAGGACATTAATCTTCTTTGAAG
AGCAATGTTCTTAATGTCAATAATCATATAACTCAATATGTAAGATCTGTAATGAGCAG
AAGGCAGAGATTTTATTGTTAAAAGAAAACTAAAAGCCTATGAAGAACGAAAGCCTTC
ACTAATGAAAATGACCAAGCAAAGTTAATGATTTCAAACCCCTCAGGAAAAAGAAATCGAA
AGGTTTTCAAGAAATCCTGAACCTGTTGTTCCAGAATCGAGAAGAAATTAGACAAGAATAT
CTGAAGTTGGAATGTTACTTAAAGAAAATGAACTTAAATCATTCTACCAACAACAGTGC
CATAAACAAATAGAAATGATGTGTTCTGAAGACAAAGTAGAAAAGGCCACTGGAAAACGA
GATCATAGACTTGCAATGTTGAAAACCTCGTCGCTCCTACCTGGAGAAAAGGAGGGAGGAG
GAATTGAAGCAATTTGATGAGAATACTAATTGGCTCCATCGTGTGCAAAAAGAAATGGGA
CTCTTAAGTCAAAACGGTCATATCCAAAGGAACTCAAGAAAGATCTTCAATGTCACCAT
TTGCACCTCCAGAACAAGATTTGAAAGCACAATTAGACATATGATGGATCTAGCTTGT
CTTCAGGAACAGCAACACAGGCAGACTGAAGCAGTATTGATGCTTTACTTCCAACCTA
AGAAAACAATATTGCACATTAAGAAGCCGGCCTGTCAAATGCTGCTTTTGAATCTGAC
TTCAAAGAGATCGAACATTTGGTAGAGAGGAAAAAGTGGTAGTTTGGGCTGACCAAACT
GCCGAACAACCAAGCAAAACGATCTACCAGGGATTTCTGTTCTTATGACCTTTCCACAA
CTTGGACCAGTTCAGCCTATTCCCTGTTGCTCATCTTCAGGTGGAATAATCTGGTTAAG
ATTCTACAGAAAAAGAACTCGGAGAAAACTAATGCCATCTCCCTTGAAAGGACAGCAT
ACTCTAAAGTCTCCACATCTCAAAGTGTGCAGCTCAATGATTCTTCTTAGCAAAGAACTT
CAGCCTATTGTATATACACCAGAAGACTGTAGAAAAGCTTTTCAAATCCGTCTACAGTA
ACCTTAATGAAACCATCATCTTTACTACAAGTTTTCAGGCTGCAGCTCAAACATAAAC
AGTGATAATTGTCTGAAAATGTTGTGTAAGTAGCTATCCCTCATAATAGAAGAAAAAGAA
TGTGGACAGGAGGACTTGGAATCTACATTTACTATATGTGAAGACATCAAGAGCTCGAAG
TGTAATTAACCGAACAAGAATCACTACCAATGATAACAAGACATTTTACAACGGCTT
GATCCTTCTTCTCACTAAGCATTCTATGCCTGTACCAAGCATGGTGCCATCTCTAC
ATGGCAATGACTACTGCTGCCAAAAGGAAACGAAATTAACAAGTTCTACATCAAACAGT
TCGTTAACTGCAGACGTAATTTCTGGATTTGCCAAACGTGTTGACAAGATAATTCAAGT
GAGAAGCACTTACAAGAAAAACAACCAACAATGGAACATAAAAAGAAACATCTGTAATAA
AATCCAAGCATGGTTAGAAAATTTGGAAGAAATATTTCAAAGGAAATCTAAGATAA

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Clone variation with respect to NM\_031217.3  
2203 a=>g

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_031217 unedited  
 GGTTACAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGTGAAGTGG  
 TTGCGGTAACCTGGCCTGGGCCTGAAGTGAGTGAGAGGCACATGAAGAGAAGTATTCAAG  
 TATTTATACAGATAGGAATCAAGATAATCAACAATGTCTGCTACTGAGGAAGACCTGTGC  
 CACCATATGAAAGTAGTAGTTCGTGTACGTCCGGAAAACTAAAGAAAAAGCAGCTGGA  
 TTTCCATAAAGTGGTTCATGTTGTGGATAAACATATCCTAGTTTTGATCCCAAACAAGAA  
 GAAGTCAGTTTTTCCATGGAAAGAAAACTACAAATCAAAATGTTATAAGAAAAACAAAAT  
 AAGGATCTTAAATTTGTATTTGATGCTGTTTTGATGAAACGTCAACTCAGTCAGAAGTT  
 TTTGAACACACTACTAAGCCAATCTTCGTAGTTTTTTGAATGGATATAATTGCACAGTA  
 CTTGCCTATGGTGCCACTGGTGCTGGGAAGACCCACACTATGCTAGGATCAGCTGATGAA  
 CCTGGAGTGATGATCTAACAATGTTACACCTTTACAAATGCATGGATGAGATTAAGAA  
 GAGAAAAATGTAGTACTGCAGTTTCATATCTGGAGGTATATAATGAACAGATTCGTGAT  
 CTCTTAGTAAATTCAGGGCCACTTGCTGTCCGGGAAGATACCCAAAAAGGGGTGGTCGTT  
 CATGGACTTACTTTACACCAGCCAAATCCTCAGAAGAAATTTACATTTATTGGATAAT  
 GGAACCAAAAACAGGACACAACATCCCACTGATATGAATGCCACATCTTCTCGTTCTCAT  
 GCTGTTTTCCAAATTTACTTGCCGACACCAGACAAACAGCAAGTATCAATCAAAGTCCG  
 TATTGCCAAGAGTCACTCATTGACTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_031217 unedited  
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTTGAATTTTATTTTTTTA  
 GAACACAAAAGAAGAAAAACAAGAGTTTCATTTTTCTGCTTGCTGAAAGTACTTGGGTAA  
 ACTTAGCTTTAAGATGGGTCTTCTTTCAAAGATTTTAAATATATTTTTGAAAGGGTATTG  
 ATAAACTTTGAAAAGCAGATTTGATCAACTTCATTTTGCTTGGTTTTGAAGTGATTATC  
 TTAGATTTCTTTTGAATATTTCTTCCAAATTTCTAACCATGCTTGGATTTATTTTTAC  
 AGATGTTTCTTTTATGTTCCATTGTTGGTTTTGTTTTCTGTAAGTGCTTCTCACTTGAAT  
 TATCTTGTGCAACACGTTTGGCAAATCCAGAATTTACGTCTGCAGTTAACGAACTGTTTG  
 ATGTAGAACTTGTTAATTTCCGTTTTCTTTTGGCAGCAGTAGTCATTGCCATGTAGGATG  
 GCACCATGCTTGGTACAGGCATAGAATGCTTAGTTGAGAATGAAGAAGGATCAAGCCGTT  
 GTAATAATGTCCTTTGTTATCATTTGGTAGTGATTCTTGTTCGGTAATTTACACTTCGAGC  
 TCTTGATGCTTTCACATATAGTAAATGTAGAGTCCAAGTCTCCTGTCCACATTTTTC  
 TTCTATTATGAGGGATAGCTACTTCACACAACATTNTCAGACAATTATCACTGTTTTATGT  
 TTGAGCTGACAGCCTGAAAACCTGTAGTAAATGATGATGGGTTCTTAAGTTACTGTAGA  
 CGGATTTTGAAGCTTTCTACGTCTTCTGTGTTATACATAGGCTGAAGTCTTTGCTAAAG  
 ATCATTGGCTGCCACTTTGAGATGTGAGACTTANAGTTGCTGCCCTTCAGGAGATGCATT  
 ATTTCTCGAGTCTTTTCTGTAATCTTACAGATAGTCCCTGAGAGACACA

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_031217

**Insert Size:**

2940 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\\_031217.2](#), [NP\\_112494.2](#)

**RefSeq Size:** 3379 bp

**RefSeq ORF:** 2697 bp

**Locus ID:** 81930

**UniProt ID:** [Q8NI77](#)

**Cytogenetics:** 11p14.1

**Domains:** kinesin

**Protein Families:** Druggable Genome

**Gene Summary:** KIF18A is a member of the kinesin superfamily of microtubule-associated molecular motors (see MIM 148760) that use hydrolysis of ATP to produce force and movement along microtubules (Luboshits and Benayahu, 2005 [PubMed 15878648]).[supplied by OMIM, Aug 2008]