

Product datasheet for **SC115725**

KIF3A (NM_007054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF3A (NM_007054) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF3A
Synonyms:	FLA10; KLP-20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_007054 edited
 GAATTCGGCACGAGGTAGTCTCTGGCCATCCTTTCTGCGCACCCGGTGTCTGCTGGGCTGC
 ACCCCGGGCGGGACGTCGCGGGGCACGGGAGGGGGCCAAGATGCCGATCAATAAATCA
 GAGAAGCCAGAAAGCTGCGATAATGTGAAGTTGTTGTTAGGTGCCGGCCCTCAATGAG
 AGAGAGAAATCAATGTGTACAAACAGGCTGTCTGATGGATGAGATGAGGGGAATC
 ACTGTACATAAGACTGATCTTCCAATGAACCTCAAAGACATTTACTTTTGATACTGTT
 TTTGGACCAGAGAGTAACAACCTTGTATGTTTATAACTTAACTGCAAGACCTATTATTGAT
 TCTGTACTTGAAGGCTACAATGGGACTATTTTGCATATGGACAAACCGGAACAGGCAAA
 ACTTTTACCATGGAAGGTGTTTCGAGCTATTCTGAACTTAGAGGAATAATCCCAATTCA
 TTTGCTCACATATTTGGTCATATTGCAAAAAGCGGAGGGTGATACAAGATTTTGGTTCTGA
 GTGCTTATTTGGAAATATATAATGAAGAAGTTCGTGACCTTTTGGCAAGGATCAGACA
 CAAAGGTTAGAGGTTAAAGAAAGACCTGATGTGGGAGTTATATCAAAGATTTATCAGCT
 TATGTGGTAAATAATGCTGATGATATGGATAGAATTATGACGCTAGGCCACAAAAATCGT
 TCTGTTGGTGCAACTAATATGAACGAACATAGTCCCGTCCCATGCCATCTTTACAATT
 ACTATAGAATGCAGTGAAAAAGGCATTGATGGTAACATGCATGTCAGGATGGGGAAGCTC
 CATCTTGTAGATCTTGTGGTTCAGAAAGACAGGCAAAAAGCTGGAGCTACTGGACAGCGC
 CTAAGGAAGCTACAAAAATCAATCTTTCACTTTCCACCCTTGGTAATGTAATTTCTGCC
 TTGGTTGATGAAAAAGCACTCATGTGCCTTATCGTAACTCTAACTGACTCGTCTTCTT
 CAGGATTCCTTAGGAGGAAATTCAAAAACCATGATGTGTGCAAAATTTGGCCAGCAGAT
 TACAATTATGATGAACTATCAGTACATTACGGTATGCCAATCGTGCTAAGAATATTTAA
 AATAAAGCTAGAATTAATGAAGATCCAAAGGATGCTTGTGTCGTCAGTTCAGAAAGAA
 ATAGAAGAACTGAAAAAGAAGCTTGAAGAAGGAGAAGAAATATCAGGCTCTGATATCAGT
 GGCTCAGAGGAAGATGATGATGAAGAGGGTGAGGTTGGAGAAGATGGAGAGAAAAAGAAA
 AAAAGAAGGGATCAAACAGGAAAAAGAAAGTCTCCCCAGACAAGATGATTGAAATGCAA
 GCAAAAATTGATGAGGAGAGAAAAGCACTTGAAACAAAGCTCGACATGGAAGAAGAAGAA
 AGAAACAAGGCTAGAGCTGAATTAGAGAAAAGGAAAAAGATCTTCTTAAAGCCCAACAA
 GAGCATCAGTCTTGTGGAAAAATTATCTGCCCTGGAAAAAGGTAATTGTTGGTGGG
 GTTGACTTGTGGCCAAAGCTGAGGAACAAGAGAACTTCTTGAAGAATCTAACATGGAA
 CTGGAAGAAGGAGGAAAAAGCAGAGCAACTTCGAGAGAACTTGAGGAAAAAGAGCAA
 GAACGCTTGGATATTGAAGAAAAATATACCAGTTTGAAGAGGAAGCACAGGAAAGACC
 AAGAAGTTAAAGAAAGTTTGGACTATGCTGATGGCTGCAAGTCAAGATGGCTGATCTC
 CAACAAGAACATCAGAGGAAATTTGAAGCCTACTGGAGAACATTCGGCAACTTAGCCGG
 GAGCTTCGACTTCAGATGCTTATTATTGATAACTTTATACCTCGGGATTATCAGGAAATG
 ATTGAAAATATGTCCATTGGAATGAAGACATAGGAGAATGGCAGCTAAAATGTGTTGCT
 TATACAGGAAATAACATGAGGAAGCAAACCCAGTACCTGATAAAAAGGAGAAAGATCCC
 TTTGAGGTGGACCTTCTCACGTGATCTTGCCTATACTGAGGAGAGTCTGCGTCAGTCT
 TTGATGAACTAGAAAGACCACGAACCTCAAAGGGGAAAGCAAGGCCAAAGACAGGGAGA
 AGAAAGCGTCTGCAAAGCCTGAACTGTAATTGACTCTTTACTGCAGTAAATGTTACAG
 ACTTAAAGTCACAATAAAAAATTAGTGATATTCTCATGCCTGGACAAAATCTTTAATTTAA
 ACAGTGAAGACTTCTATAATTTCAATTAATGGAAGTTGTAGATCAATGAATAAGACTG
 GAAATAATAATTTGCTTAAGAACTTTTAGTCTACATATATTAATAAACATTTAAATTTGT
 ACAACTGGTGATTGTTCAAATTTGTACTACTACTCTTCAATTGACTGTGCAGGGAAG
 TTGGGGGAACAGTTCATACTATAGAGAGTTACAGTTTAGATGTATGTGTAATCGATTAG
 CTATTTATCCAACACTGTATATTTAGGTAACCTAGAAATTTCAAAGTAGAAAAAAAAAAAA
 AAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007054 unedited
 GCTCGNGATTTTGTAAACGCACTTTACTATAGGGCGGCAAAGCCATTCGGCACGAGGTAG
 TCTCTGGCCATCCTTTCTGCGCACCCGGTGTGCTGGGCTGCACCCCGGGCGGGACGTC
 CGCCGGGCACGGGAGGGGGCCAAGATGCCGATCAATAAATCAGAGAAGCCAGAAAGCTGC
 GATAATGTGAAGTTGTTGTTAGGTGCCGGCCCTCTTTTAGAGAGAAATCAATGTGCT
 ACAAACAGGCTGTCAGTGTGGATGAGATGAGGGAACTATCACTGTACATAAGACTGATT
 CTTCCAATGAACCTCAAAGACATTTACTTTTGATACTGTTTTTGGACCAGAGAGTAAAC
 AACTTGATGTTTTATAACTTAACTGCAAGACCTATTATTGATTCTGTACTTGAAGGTACA
 ATGGGACTATTTTTGCATATGGACAAACCGGAACAGGCAAAACTTTTACCATGGAAGGTG
 TTCGAGCTATTCCTGAACTTAGAGGAATAATTCCCAATTCATTTGCTCACATATTTGGTC
 ATATTGCAAAAGCGGAGGGTGATACAAGATTTTTGGTTCGAGTGTCTATTTGAAATAT
 ATAATGAAGAAGTTCGTGACCTTTGGGCAAGGATCAGACACAAAGGTTAGAGGTTAAAG
 AAAGACCTGATGTGGGAGTTTATCANAGATTTATCAGCTTATGTGTAATAATGCTG
 ATGATATGGATAGAATTATGACGCTAGGCCACANAATCGTTCTGTTGGTGCAACTAATA
 TGAACGAACATAGTTCCTGTTCCCATGCCATCTTACNATTAATAAGAATGCAGTGAAN
 AAAGCATTGATGGTAAACATGCATGTCAGGATGGGAAAAGCTCATCTGTANATCTTGCTG
 GTTCAAAAAGACAGGCAAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007054 unedited
 TGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTACTTTGAAATTCT
 AGTTACCTAAATATACAGTAGTTGGATAAATAGCTAATCGATTTACACATACATCTAAAC
 TGTAACCTCTATAGTATGAACTGTTCCCAACTTCCCTGCACAGTACAATTGAAGAGT
 AGTAGTACAACAATTTGAACAATCACCAGTTGTACAATTTAATGTTATATTAATATATG
 TAGACTAAAAGTTCTTAAGCAAATTATTATTTCCAGTCTTATTCATTGATCTACAACCTC
 CATTAATTGAAATTATAGAGAAGTCTTCACTGTTTTAATTAAGATTTTGTCCAGGCATG
 AGAATATCACTAATTTTTATTGTGACTTTAAGTCTGTAACATTTACTGCAGTAAAGATC
 AATTACAGTTTCAGGCTTTGCAGAACGCTTTCTTCTCCCTGTCTTTGGCCTTGCTTTCC
 CTTTGAAGTTCGTGGTCTTTCTAGTTTCATCAAAGACTGACGCAGACTCTCCTCAGTATA
 GGCAAGATACACGTGAGAAAGTCCACCTCAAAGGGATCTTCTCCTTTNTATCAAGTAC
 TGGGGTTTGCTTCTCATGTTATTTCTGTATAAGCACCATTTTAGCTGCCATTCTCC
 TATGTCTTCATTCCATGGACATAGTTTTCAATCATTTCCCTGATAATCCCGAGGGTATAAG
 TTATCAATAATAAGCATCTGAGTCTGAAGTCCCGGCTAGTTTGGCGATGTTCTCCAGTA
 AGCCTCCATTTCCCTCTGATGTTCTTGTGAAGATAGCCATCTCTGACTTGCACCATCA
 GATAGTCCCAACTTCTTTACCTNCTGGCTTTCCCTGGGCTNCCTCTTGAAGTGGATAA
 TTTTCTTAATATCCAGCGTTTCTGCTCTTTTCTCAGTTTCTTGGAAAGNGGCTGGCTTTT
 TCCTCCTTCTCCAAGTCATGGAAAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_007054

Insert Size:

2660 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:	<ol style="list-style-type: none">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_007054.4 , NP_008985.3
RefSeq Size:	3282 bp
RefSeq ORF:	2100 bp
Locus ID:	11127
UniProt ID:	Q9Y496
Cytogenetics:	5q31.1
Domains:	kinesin
Protein Families:	Druggable Genome
Gene Summary:	<p>Microtubule-based anterograde translocator for membranous organelles. Plus end-directed microtubule sliding activity in vitro. Plays a role in primary cilia formation. Plays a role in centriole cohesion and subdistal appendage organization and function. Regulates the formation of the subdistal appendage via recruitment of DCTN1 to the centriole. Also required for ciliary basal feet formation and microtubule anchoring to mother centriole. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two consecutive exons in the coding region but maintains the reading frame, compared to variant 1. The resulting isoform (3) lacks an internal segment, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>