

## Product datasheet for SC115446

### KIF4A (NM\_012310) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIF4A (NM\_012310) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** KIF4A  
**Synonyms:** KIF4; KIF4G1; MRX100  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_012310 edited  
 CTGGGACAGGGCGCGGGAGGCCAGGGAGAACGGGAAGGGACATTTAGTTTGAGACGG  
 TGCTGAGATAGGATCATGAAGGAAGAGGTGAAGGGAATTCCTGTAAAGAGTGGCGTGCCT  
 TGTGCGCCCTCTGGTCCCCAAAGAGATTAGCGAGGGCTGCCAGATGTGCCCTTCCTTCGTG  
 CCCGGAGAGCCTCAGGTGGTGGTTGGTACAGATAAATCCTTCACCTACGATTTTGTATTT  
 GATCCCTCTACTGAACAGGAAGAAGTCTTCAATACAGCAGTAGCGCCACTCATAAAAGGT  
 GTATTTAAAGGATATAATGCAACGGTCCTGGCCTATGGGCAGACTGGCTCTGGAAAAACC  
 TATTCAATGGGAGGTGCATATACTGCAGAGCAAGAGAATGAACCAACAGTTGGGGTTATT  
 CCTAGGGTAATACAACCTGCTCTTCAAAGAAATTGATAAAAAGAGTGACTTTGAATTTACT  
 CTGAAAGTGTCTTACTTAGAGATTTACAATGAAGAAATTTGGATCTTCTATGCCATCT  
 CGTGAGAAAGCTCAAATAAATATACGAGAGGATCCTAAGGAAGGCATAAAGATTGTGGGA  
 CTCACTGAGAAGACTGTTTTGGTTGCCTTGGATACTGTTTCCTGTTTGAACAGGGCAAC  
 AACTCTAGGACTGTGGCCTCCACGGCTATGAACTCCCAGTCGTCGCCGATCTCATGCCATC  
 TTTACAATCTCCTTAGAGCAAAGAAAAGAAAAGTGACAAGAATAGCAGCTTTCGCTCCAAG  
 CTGCATCTTGTAGACCTCGCTGGATCAGAAAGACAGAAGAAAACCAAGGCTGAAGGGGAT  
 CGTCTAAAAGAGGGTATTAATATTAACCGAGGCCCTCTATGCTTGGGAAATGTAATCAGT  
 GCTCTTGGAGATGACAAAAAGGGTGGCTTTGTGCCCTACAGAGATTCCAAGTTGACTCGA  
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 ATCAAGAACAACCTATTGTTAATATTGATCCCCAGACAGCTGAACTTAATCATCTAAAG  
 CAACAGGTACAACAGCTACAAGTCTTGTGCTACAGGCCATGGAGGTACCCTGCCTGGA  
 TCTATAACTGTGGAACCATCAGAGAATCTACAATCCCTGATGGAGAAGAATCAGTCCCTG  
 GTAGAGGAGAATGAAAAATTAAGTCGTGGTCTGAGCGAGGCAGCTGGTCAGACAGCCCAG  
 ATGTTGGAGAGGATCATTTTGACAGAGCAAGCGAATGAAAAATGAACGCCAAGCTAGAA  
 GAGCTCAGGCAGCATGCGCCTGCAAACCTGGATCTTCAAAGCTAGTGGAGACTTTGGAA  
 GACCAGGAATTGAAAGAAAATGTAGAGATAATTTGTAACCTGCAGCAATTGATTACCCAG  
 TTATCGGATGAACTGTTGCTTGCATGGCTGCAGCCATTGATACTGCGGTGGAGCAAGAA



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GCCCAAGTAGAAACCAGTCCAGAGACGAGCAGGTCTTCTGACGCTTTTACCACTCAGCAT  
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 AAAGAGGCCCTGGCTAGGAAGATGACTCAGAATGACAGCCAACCTGCAGCCATTAGTAC  
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 CAGTGTGGGTGCAGGAAGCAAAGTCAAGTGTGGTGTGGACTGTTGCTGTGACCCACA  
 AAGTGTGGAACCGCCAGCAAGCAAGGATAGCTTGGGCACTGTTGAACGGACCCAGGAT  
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 AATCCCCTGTGTGCCACCCCAATAGCAAGATCCTGAAAGAGATGTGCGATGTGGAGCAG  
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 AGCAACACCAGCTTCTTCTGTGGCTGTCCCCTATCGAAGAAGAGGCCCACTGAAGTTGG  
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 TTAAGTGAAGAAAGGTAACCTTTGTTGGATGTGGGCCTTAGCCTCCAGGTCCAGACTACT  
 ACTCTATGTTCTCCAGAAGGGTGTAAAGTCACTACTGAAGAGAGAACCAACTGACTTTC  
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 TTCAGGCTATCTCCTGATGGGATGAGGCCAAGGCTTCTTATCTTTTGGTTGTGTCTGC  
 TTAATGGAGGAGCCTGGCTAGGATGGAGGCTGGCTTAGATCTTTCATTCCACCTCAGG  
 AATGAGGTTGTGATCTTCTGCTGCTGACCCTCTGAATTATGTTTCAATAGTACTCTT  
 GATTGTCTGCCATGTTGTTGAAGCAAATGAATTATTTTTAAATGTTAAGTAAGTAATAA  
 ACCTTAGCCCGTCAA

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_012310  
**Insert Size:** 4400 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_012310.2</a></u> , <u><a href="#">NP_036442.2</a></u>
<b>RefSeq Size:</b>	4348 bp
<b>RefSeq ORF:</b>	3699 bp
<b>Locus ID:</b>	24137
<b>UniProt ID:</b>	<u><a href="#">O95239</a></u>
<b>Cytogenetics:</b>	Xq13.1
<b>Domains:</b>	kinesin
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a member of the kinesin 4 subfamily of kinesin related proteins. The encoded protein is an ATP dependent microtubule-based motor protein that is involved in the intracellular transport of membranous organelles. This protein also associates with condensed chromosome arms and may be involved in maintaining chromosome integrity during mitosis. This protein may also be involved in the organization of the central spindle prior to cytokinesis. A pseudogene of this gene is found on chromosome X.[provided by RefSeq, Mar 2010]