

Product datasheet for **SC318185**

Kinesin Heavy Chain 2 (KIF2A) (NM_004520) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kinesin Heavy Chain 2 (KIF2A) (NM_004520) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kinesin Heavy Chain 2
Synonyms:	CDCBM3; HK2; KIF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC318185 representing NM_004520.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCAACGGCCAACTTCGGCAAGATCCAGATCGGGATTACGTGGAGATCAAGCGCAGCGATGGCCGA
ATACATCAAGCAATGGTAACATCTTTAAATGAAGATAATGAAAGTGTAAGTGTGATAGAAAAAT
GGAGATACAAAAGGCAAAAGAGATTGACCTGGAGAGCATCTTTCACTTAACCCCTGACCTTGTTCCTGAT
GAAGAAATTGAACCCAGTCCAGAAACACCTCCACCTCCAGCATCCTCAGCCAAAGTAAACAAAATTGTA
AAGAATCGACGGACTGTAGCTTCTATTAAGAATGACCCTCCTCAAGAGATAATAGAGTGGTTGGTTCA
GCACGTGCACGGCCAGTCAATTCCTGAACAGTCTTCTCTGCACAACAGAATGGTAGTGTTCAGAT
ATATCTCCAGTTCAGCTGCAAAAAAGGAATTTGGACCCCTTCACGTAGAAAATCTAATTGTGTGAAA
GAAGTAGAAAACTGCAAGAAAAACGAGAGAAAAGGAGATTGCAACAGCAAGAAGTATAGAAAAAAGA
GCCAGGACGTTGATGCTACAAACCCAAATTATGAAATTATGTGTATGATCAGAGACTTTAGAGGAAGT
TTGGATTATAGACCATTAACAACAGCAGATCCTATTGATGAACATAGGATATGTGTGTGTGAAGAAAA
CGACCACTCAATAAAAAAGAACTCAAATGAAAGATCTTGATGTAATCACAATTCCTAGTAAAGATGTT
GTGATGGTACATGAACCAAAACAAAAGTAGATTTAACAGGTACCTAGAAAACCAACATTTCTGTTTT
GATTATGCCTTTGATGACTCAGCTCCTAATGAAATGGTTTACAGGTTTACTGCTAGACCACTAGTGGAA
ACTATATTTGAAAGGGGAATGGCTACATGCTTTGCTTATGGGCAGACTGGAAGTGAAAAACTCATACT
ATGGGTGGTGACTTTTCAGGAAAGAACCAAGATTGTTCTAAAGGAATTTATGCATTAGCAGCTCGAGAT
GTCTTTTTAATGCTAAAGAAGCCAACTATAAGAAGCTAGAACTTCAAGTATATGCAACCTTCTTTGAA
ATTTATAGTGGAAGGTGTTTGACTTGCTAAACAGGAAAAACAAATTAAGAGTTCTAGAAGATGAAAAA
CAGCAGTTCAAGTGGTGGGATTACAGGAACGGGAGGTCAAATGTGTTGAAGATGTACTGAAACTCATT
GACATAGGCAACAGTTGCAGAACATCCGGTCAAACATCTGCAAAATGCACATTCATCTCGGAGCCATGCA
GTGTTTCAGATTATTCTAGAAGGAAAGGAAAACTACATGGCAAATTTCTCTCATTGATTGGCTGGA
AATGAAAGAGGAGCTGATACTTCAGTGCAGCAGGCAAACTAGGCTTGAAGGTGCTGAAATTAATAAA
AGCCTTTTAGCACTCAAGGAGTGCATCAGAGCCTTAGGTAGAAATAAACCTCATACTCCTTTCCGTGCA
AGTAACTCACTCAGGTGTTAAGAGATTCTTCATAGGTGAAACTCTCGTACCTGCATGATTGCCACA
ATCTCTCCAGGAATGGCATCCTGTGAAAATACTCTTAATACATTAAGATATGCAAAATAGGTCAAAGAA
TTGACTGTAGATCCAAGTCTGCTGGTGTGTTCTGTTCAATAATGCACCATCCACCAACCAGATTGAT
GACTTAGAGACACAGTGGGTGTGGGAGTTCCCTCAGAGAGATGATCTAAACTTCTTTGTGAACAA
AATGAAGAAGAAGTCTCTCCACAGTTGTTTACTTTCCACGAAGCTGTTTCACAAATGGTAGAAATGGAA
GAACAAGTTGTAGAAGATCACAGGGCAGTGTCCAGGAATCTATTCGGTGGTTAGAAGATGAAAAGGCC
CTCTTAGAGATGACTGAAGAAGTAGATTATGATGTCGATTGATGCTACACAACCTGAAGCTATTCTT
GAGCAAAAAATAGACATTTTAACTGAACTGCGGGATAAAGTGAAATCTTTCCGTGCAGCTCTACAAGAG
GAGGAACAAGCCAGCAAGCAATCAACCCGAAGAGACCCCGTGCCCTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI
ACCN: NM_004520
Insert Size: 2121 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).

OTI Annotation:	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.
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:	<u>NM_004520.4</u>
RefSeq Size:	4058 bp
RefSeq ORF:	2121 bp
Locus ID:	3796
UniProt ID:	<u>O00139</u>
Cytogenetics:	5q12.1
Domains:	kinesin
Protein Families:	Druggable Genome
MW:	80 kDa
Gene Summary:	<p>The protein encoded by this gene is a plus end-directed motor required for normal mitotic progression. The encoded protein is required for normal spindle activity during mitosis and is necessary for normal brain development. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 2. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 2.</p> <p>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>