

## Product datasheet for **SC330198**

### Kinesin Heavy Chain 2 (KIF2A) (NM\_001243952) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kinesin Heavy Chain 2 (KIF2A) (NM_001243952) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kinesin Heavy Chain 2
Synonyms:	CDCBM3; HK2; KIF2
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC330198 representing NM\_001243952.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGCCGAATACATCAAGCAATGGTAACATCTTTAAATGAAGATAATGAAAGTGAACCTGTTGAATGG
ATAGAAAATGGAGATACAAAAGGCAAAGAGATTGACCTGGAGAGCATCTTTTCACTTAACCCGTGACCTT
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AGCCATGCAGTGTTCAGATTATCTTAGAAGGAAAGGAAAACACTACATGGCAAATTTTCTCTCATTGAT
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GAAAAGGCCCTCTTAGAGATGACTGAAGAAGTAGATTATGATGTCGATTATGCTACACAACCTTGAA
GCTATTCTTGAGCAAAAATAGACATTTAACTGAACTGCGGGATAAAGTGAAATCTTTCGGTGCAGCT
CTACAAGAGGAGGAACAAGCCAGCAAGCAATCAACCCGAAGAGACCCCGTGCCTTTAA
  
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001243952

**Insert Size:** 2061 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\\_001243952.1](#)

**RefSeq Size:** 4261 bp

**RefSeq ORF:** 2061 bp

**Locus ID:** 3796

**UniProt ID:** [O00139](#)

**Cytogenetics:** 5q12.1

**Protein Families:** Druggable Genome

**MW:** 77.7 kDa

**Gene Summary:** 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]  
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 2. The resulting isoform (3) has a shorter and distinct N-terminus and lacks an alternate internal segment compared to isoform 2. 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.