

Product datasheet for **SC314991**

Kinesin 5C (KIF5C) (NM_004522) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kinesin 5C (KIF5C) (NM_004522) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kinesin 5C
Synonyms:	CDCBM2; KINN; NKHC; NKHC-2; NKHC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC314991 representing NM_004522.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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Restriction Sites: SgfI-MluI

ACCN:	NM_004522
Insert Size:	2874 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_004522.2</u>
RefSeq Size:	6958 bp
RefSeq ORF:	2874 bp
Locus ID:	3800
UniProt ID:	<u>O60282</u>
Cytogenetics:	2q23.1-q23.2
Domains:	kinesin
Protein Families:	Druggable Genome
MW:	109.5 kDa
Gene Summary:	<p>The protein encoded by this gene is a kinesin heavy chain subunit involved in the transport of cargo within the central nervous system. The encoded protein, which acts as a tetramer by associating with another heavy chain and two light chains, interacts with protein kinase CK2. Mutations in this gene have been associated with complex cortical dysplasia with other brain malformations-2. Two transcript variants, one protein-coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Jul 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein.</p>