

## Product datasheet for **SC304179**

### KIF14 (NM\_014875) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIF14 (NM_014875) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF14
Synonyms:	MCPH20; MKS12
Vector:	<u>pCMV6 series</u>

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014875, the custom clone sequence may differ by one or more nucleotides

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ATGTCATTACACAGTACTCATAATAGAAAATAACAGCGGTGATATTCTTGATATTCCTTCT
TCCAAAAATAGTTCATCACTGAATGCCCTCACCCACAGTAGCCGACTTAAGCTGCATTTG
AAGTCGGATATGTCAGAAATGTGAAAATGATGATCCATTATTGAGATCTGCAGGTAAGTC
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TCTGCCCCAGTAGAGCAAAATGAAAATGTTGCACTTAAGTACTCAAGTAATAGACCACCC
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TCTTACGCTGATATCCAGAGTTGGCTAGAATTGGGAAATAAACAAAGAGCTACTGCTGCT
ACTGGTATGAATGATAAAAAGTCCCGATCTCATTCAAGTTTACCCCTGGTATGACCCAG

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ACCAAGACAGAATTTGTGGAAGGGGAAGAACACGATCACAGAATAACAAGTCAATTAAC  
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ACCAAAGAAGAACAACAATCTAAATCAAGCGGGATTGACGGCAGTAAGAATAAAGGT

GTACCAAAGCGTGTCTATGAGCTCCATGGCTCATCCCCAGCAGTGAGCTCAGAGGAATGC  
ACACCCAGTAGGATTCAGTGGGTGTGA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014875
<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>	<a href="#">NM_014875.1</a> , <a href="#">NP_055690.1</a>
<b>RefSeq Size:</b>	6586 bp
<b>RefSeq ORF:</b>	4947 bp
<b>Locus ID:</b>	9928
<b>UniProt ID:</b>	<a href="#">Q15058</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a member of the kinesin-3 superfamily of microtubule motor proteins. These proteins are involved in numerous processes including vesicle transport, chromosome segregation, mitotic spindle formation, and cytokinesis. In human HeLa-S3 and 293T cells, this protein is localized to the cytoplasm during interphase, to the spindle poles and spindle microtubules during mitosis, and to the midbody during cytokinesis. An internal motor domain displays microtubule-dependent ATPase activity, consistent with its function as a microtubule motor protein. Knockdown of this gene results in failed cytokinesis with endoreplication, which results in multinucleated cells. This gene has been identified as a likely oncogene in breast, lung and ovarian cancers, as well as retinoblastomas and gliomas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>