

Product datasheet for **SC337194**

MCAK (KIF2C) (NM_001297655) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCAK (KIF2C) (NM_001297655) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF2C
Synonyms:	CT139; KNSL6; MCAK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001297655, the custom clone sequence may differ by one or more nucleotides

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ATGGCCATGGACTCGTCGCTTCAGGCCCGCTGTTCCCGGTCTCGCTATCAAGATCCAACGCAGTAATG
GTTTAATTCACAGTGCCAATGTAAGGACTGTGAAGTGGAGAAAATCCTGTGTTTCAGTGGAAATGGGCAGA
AGGAGGTGCCACAAAGGGCAAAGAGATTGATTTTATGATGTGGCTGCAATAAACCCAGAAGTCTTACAG
CTTCTTCCCTTACATCCGAAGGACAATCTGCCCTTGCAGGAAAATGTAACAATCCAGAAAACAAAACGGA
GATCCGTCAACTCCAAAATTCCTGCTCCAAAAGAAAGTCTTGAAGCCGCTCCACTCGCATGTCCACTGT
CTCAGAGCTTCGCATCACGGCTCAGGAGAATGACATGGAGGTGGAGCTGCCTGCAGCTGCAAACTCCCGC
AAGCAGTTTTTCAGTTCCTCTTCGGAGGAAATCATGTCTTGTGAAGGAAGTGGAAAAATGAAGAACAAGC
GAGAAGAGAAGAAGGCCCAGAAGTCTGAAATGAGAATGAAGAGAGCTCAGGAGTATGACAGTAGTTTTCC
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GATCCTATCGAAGAGCACAGAATATGTGTCTGTGTTAGGAAACGCCCACTGAATAAGCAAGAATTGGCCA
AGAAAGAAATTTGATGTGATTTCCATTCTAGCAAGTGTCTCTTGGTACATGAACCAAGTTGAAAGT
GGACTTAACAAAGTATCTGGAGAACCAAGCATTCTGCTTTGACTTTGCATTTGATGAAACAGCTTCGAAT
GAAGTTGTCTACAGTTTACAGCAAGGCCACTGGTACAGACAATCTTTGAAGGTGAAAAAGCAACTTGT
TTGCATATGGCCAGACAGGAAGTGGCAAGACATACTATGGGCGGAGACCTCTCTGGGAAAGCCAGAA
TGCATCCAAAGGGATCTATGCCATGGCCTCCCGGGACGTCTTCTCTGAAGAATCAACCCGTGCTACCGG
AAGTTGGGCTGGAAAGTCTATGTGACATTTCTCGAGATCTACAATGGGAAGCTGTTTGACCTGCTCAACA
AGAAGGCCAAGCTGCGCGTGTGGAGGACGGCAAGCAACAGGTGCAAGTGGTGGGCTGCAGGAGCATCT
GGTTAACTCTGCTGATGATGTCATCAAGATGATCGACATGGGCAGCGCTGCAGAACCTCTGGGCAGACA
TTTGCCAACTCCAATTCCTCCCGTCCACGCGTCTTCCAAATATTCTTCGAGCTAAAGGGAGAATGC
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GACCCGCATGGAGGGCGCAGAAATCAACAAGAGTCTTACGCCCTGAAGGAGTGCATCAGGGCCCTGGGA
CAGAACAAGGCTCACACCCGTTCCGTGAGAGCAAGCTGACACAGGTGCTGAGGGACTCCTTCATTGGGG
AGAAGTCTAGGACTTGCATGATTGCCACGATCTCACCAGGCATAAGCTCCTGTGAATATACTTTAAACAC
CCTGAGATATGCAGACAGGGTCAAGGAGCTGAGCCCCACAGTGGGCCAGTGGAGAGCAGTTGATTCAA
ATGAAACAGAAGAGATGGAAGCCTGCTAACGGGGCGTATTCCAGGCAATTTATCCAAGGAAGAGG
AGGAAGTCTTCCAGATGTCCAGCTTAAACGAAGCCATGACTCAGATCAGGGAGCTGGAGGAGAAGGC
TATGGAAGAGCTCAAGGAGATCATACAGCAAGGACCAGACTGGCTTGAGCTCTCTGAGATGACCGAGCAG
CCAGACTATGACCTGGAGACCTTTGTGAACAAAGCGGAATCTGCTCTGGCCAGCAAGCCAAGCATTCT
CAGCCCTGCGAGATGTCATCAAGGCCTTGGCCTGGCCATGCAGCTGGAAGAGCAGGCTAGCAGACAAAT
AAGCAGCAAGAAACGGCCCCAGTGA
    
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Restriction Sites: SgfI-RsrII

ACCN: NM_001297655

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:	<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_001297655.1, NP_001284584.1</u>
RefSeq Size:	2773 bp
RefSeq ORF:	2055 bp
Locus ID:	11004
UniProt ID:	<u>Q99661</u>
Cytogenetics:	1p34.1
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a kinesin-like protein that functions as a microtubule-dependent molecular motor. The encoded protein can depolymerize microtubules at the plus end, thereby promoting mitotic chromosome segregation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>