

Product datasheet for **SC337171**

MCAK (KIF2C) (NM_001297656) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCAK (KIF2C) (NM_001297656) 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)

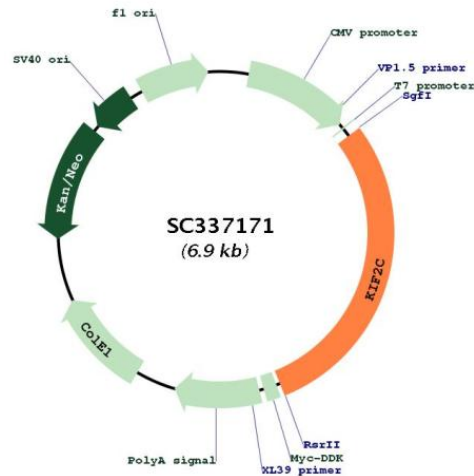


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Fully Sequenced ORF: >SC337171 representing NM_001297656.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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ATGATTGATTTTGGTGGCTGCAATAAACCCAGAACTCTTACAGCTTCTTCCCTTACATCCGAAG
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CCTGCTCCAAAAGAAAGTCTTGAAGCCGCTCCACTCGCATGTCCACTGTCTCAGAGCTTCGCATCACG
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ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

Plasmid Map:


ACCN: NM_001297656

Insert Size: 2016 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_001297656.1](#)

RefSeq Size: 3014 bp

RefSeq ORF: 2016 bp

Locus ID: 11004

UniProt ID: [Q99661](#)

Cytogenetics: 1p34.1

Protein Families: Druggable Genome

MW: 75.6 kDa

Gene Summary:

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]

Transcript Variant: This variant (3, also known as tsMCAK) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus than isoform 1.