

Product datasheet for **SC337417**

MKLP1 (KIF23) (NM_001281301) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKLP1 (KIF23) (NM_001281301) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF23
Synonyms:	CHO1; KNSL5; MKLP-1; MKLP1
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_001281301, the custom clone sequence may differ by one or more nucleotides

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ATGGAGACTATAAGGAGACTCAGTATTCATTTAAACAAGTATTTGGCACTCACACCACCCAGAAGGAACT
CTTTGATGTTGTGGCTAATCCCTTGGTCAATGACCTCATTTCATGGCAAAAATGGTTTTCAAATCTAATGA
TAGGAATAGTATGGATATACAGTGTGAGGTTGATGCCTTATTAGAACGTCAGAAAAGAGAAGCTATGCC
AATCCAAAGACTTCTTCTAGCAAACGACAAGTAGATCCAGAGTTTGCAGATATGATAACTGTACAAGAAT
TCTGCAAAGCAGAAGAGGTTGATGAAGATAGTGTCTATGGTGTATTTGTCTCTTATATTGAAATATATAA
TAATTACATATATGATCTATTGGAAGAGGTGCCGTTTGTATCCCATAAAACCCAAACCTCCACAATCTAAA
TTGCTTCGTGAAGATAAGAACCATAACATGTATGTTGCAGGATGTACAGAAGTTGAAGTGAATCTACTG
AGGAGGCTTTTGAAGTTTTCTGGAGAGGCCAGAAAAGAGACGTATTGCTAATACCCATTTGAATCGTGA
GTCCAGCCGTTCCCATAGCGTGTCAACATTAATTAGTTCAGGCTCCCTGGATGCAGATGGAGACAAT
GTCTTACAGGAAAAGAACAATCACTATAAGTCAGTTGTCTTGGTAGATCTTGTGGAAGTGAAGAA
CTAACCGACCAGAGCAGAAGGGAACAGATTACGTGAAGCTGGTAAATTAATCAGTCACATAATGACGCT
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TCAAAGTTAACCCATCTGTTCAAGAACTACTTTGATGGGGAAGGAAAAGTGCAGATGATCGTGTGTGTA
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AGTAGCAAAGACCTGTAGACAAGGCAATATGTGGTTAACGCCCTGGGAGGAGATACAGAAACCAGCCTCGA
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CAGCAGCATTTCTGTAGCTTCTGTATTTCCGAAATGGGAGCAGAAAATTCCTACGTACAACACACCTCTC
AAAGTCACATCTATTGCAAGGCGTAGGCAGCAGGAGCCAGGACAAAGCAAACTTGATCTGTGTCAGACA
GAAGGCGAGGGATGACTGGACTGAAGGCAGGGAGGTGGTTCCTACATTCAGAAATGAGATAGAAATAGA
AGAGGATCATTGCGGCAGGGGTGATTTATAAAAACAGGGGTGGTGGACAATCTGTTTCAAGTTTACTGAT
ATTGAGACTTTAAAGCAAGAATCACCAATGGTAGTCGAAAACGAAGATCTTCCACAGTAGCACCTGCC
AACCAGATGGTGCAGAGTCTGAATGGACCGATGTAGAAACAAGGTGTTCTGTGGCTGTGGAGATGAGAGC
AGGATCCCAGCTGGGACCTGGATATCAGCATCACGCACAACCCAAAGCCAAAAAGCCATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001281301

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_001281301.1](#), [NP_001268230.1](#)

RefSeq Size: 3338 bp

RefSeq ORF: 2301 bp

Locus ID: 9493

Cytogenetics: 15q23

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Transcript Variant: This variant (3) differs in the 5' UTR, initiates translation at an alternate start codon, and has multiple differences in the coding region compared to variant 1. The resulting protein (isoform 3) has a distinct N-terminus and is shorter than isoform 1.