

Product datasheet for **SC110064**

MKLP1 (KIF23) (NM_138555) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKLP1 (KIF23) (NM_138555) Human Untagged Clone
Tag:	Tag Free
Symbol:	MKLP1
Synonyms:	CHO1; KNSL5; MKLP-1; MKLP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110064 sequence for NM_138555 edited (data generated by NextGen Sequencing)

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ATGAAGTCAGCGAGAGCTAAGACACCCCGAAACCTACCGTGAAAAAAGGGTCCCAAACG
AACCTTAAAGACCCAGTTGGGGTATACTGTAGGGTGCGCCCACTGGGCTTTCCTGATCAA
GAGTGTTCATAGAAAGTATCAATAATACAACCTGTTGAGTTCATACTCCTGAGGGCTAC
AGACTCAACCGAAATGGAGACTATAAGGAGACTCAGTATTCATTTAAACAAGTATTTGGC
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ATTCATGGCAAAAATGGTCTTCTTTTACATATGGTGTGACGGGAAGTGGAAAACTCAC
ACAATGACTGGTCTCCAGGGGAAGGAGGGCTGCTTCTCGTTGTTTGGACATGATCTTT
AACAGTATAGGGTCATTTCAAGCTAAACGATATGTTTTCAAATCTAATGATAGGAATAGT
ATGGATATACAGTGTGAGTTGATGCCTTATTAGAACGTCAGAAAAGAGAAGCTATGCC
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TATGTTGAGGATGTACAGAAGTTGAAGTAACTACTGAGGAGGCTTTTGAAGTTTTT
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GGTCCAGTTGAAATGAACCATTGGTTACTGACGTGGTTTTGCAGAGTTTCCACCTTTG
CCGTCATGCGAAATTTTGGATATCAACGATGAGCAGACACTTCCAAGGCTGATTGAAGCC

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TTAGAGAAACGACATAACTTACGACAAATGATGATTGATGAGTTTAAACAAACAATCTAAT
 GCTTTTAAAGCTTTGTTACAAGAATTTGACAATGCTGTTTTAAGTAAAGAAAACCATG
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 GCAGGATCCCAGCTGGGACCTGGATATCAGCATCACGCACAACCCAAGCGCAAAAAGCCA
 TGA

Clone variation with respect to NM_138555.2
 734 a=>n;1443 a=>g;1977 c=>t

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_138555 unedited
 GGTTCAAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGCGGGAGCTC
 ACCTGGGCTCTTAGCGTCGCCGCCGCTTCGCAGAGCACCGCCCTTAGCCGCGAAGTTC
 TAGTTCTTGCTGCCGGTCTAACGTCGCCAGTCTTCGCCAGCCAGCCGTCGCCGATGCG
 CGTTTGGGCGGCGTGAGCCTGCTGCCATGAAGTCAGCGAGAGCTAAGACACCCCGGAAA
 CCTACCGTGAAAAAGGGTCCCAAACGAACCTTAAAGACCCAGTTGGGGTATACTGTAGG
 GTGCGCCCACTGGGCTTCTGATCAAGAGTGTGCATAGAAGTATCAATAATACTAACT
 GTTCAGCTTCATACTCCTGAGGGCTACAGACTCAACCGAAATGGAGACTATAAGGAGACT
 CAGTATTCATTTAAACAAGTATTTGGCACTCACACCACCCAGAAGGAACCTTTTGATGTT
 GTGGCTAATCCCTTGGTCAATGACCTCATTGATGGCAAAAATGGTCTTCTTTTACATAT
 GGTGTGACGGGAAGTGGAAAACTCACACAATGACTGGTCTCCAGGGGAAGGAGGGCTG
 CTTCTCGTTGTTTGGACATGATCTTTAACAGTATAGGGTCATTTCAAGCTAAACGATAT
 GTTTTCAAATCTAATGATAGGAATAGTATGGATATACAGTGTGAGGTTGATGCCTTATTA
 GAACGTGAGAAAAGAGAAGCTATGCCCAATCCAAAGACTTCTTCTAGCANACCGACAGTA
 GATCCAGAGTTTGAGATATGATAACTGTACAAGAATTCTGCANAGCAGAAGAAGTTGAT
 GAAGATAGTGTCTATGGTGTATTTGTCTTATATTGAATATATATTACATATATGAT
 CTATTGNAAGAGGTGCCGTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_138555 unedited GCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTATTTCTTAGTGCTTTTGATT TTAATTCCTTTGGCATATCTAAATGTCAGAAAGTGAATATATACATACAGAATCAAAC ACCTTCCTAAAATGGTTATTATTGGCCAGTCATTTACATCTTTATTTTAAAAGTCTGAAT TGTCAAAATAGTTCTAAAGTGCATTCTTGCAGCTAATAAATAGCAGCATTGTTTAAAA CCTTAAGAAAATTCAGACCAGGGCTGGAGAAGTCAATAAAAAATCAGACATGATCTAGA TATAGTCTTCCTTAATCATCTAAGACAAACACTTGTGTGAATTTATAAGTATACAT GAAATATATTTTAAAAAACATTATAAAAAATTCATACAGTGATGAAAAAGGAGTCTTC CTCTGCTATTAATATTAATATGGCAAAACATACACTATAACAAGTTTGTGAATACTAG TTGTCTTTGGAACCATAGGGAAAGCTTTGCTCTGGGTCAGTGTATGATGTAGCTGAGGTC CGTGATTTTCAACAAAGCTGGAGTTCTACAAGATGACCTGNAAGACTGCTTCTGGCATGG CTNTCGAGAAATCATCCACACAAATGANAATGTTCTTTCAGTACTGGGACTGTCAGTTCA TGGCTTTTTCGCTTGNNGTGTGCGTGATGCTGATATCCANGTCCCAGCTGGATCCTGC TCTCATCTCACAGCCACAGAACACCTTGTCTACATCGGTCCATTAGACTCTGCACCAT CTGTTGGGCAGGTGCTACTGTGGAAGTCNNTCGTTTCGACTACATTTGGTGATNCTTGC TTTTAAGCCTCATATCAGAAACTGAACAGATTGTCACCACCCTGNTTATAATATCAACC TTANNTAGNTAGNTNCATCTCCCATCGNAGGCTAGTCCTGGGGTTCAGCATGTACTTTNC AC
Restriction Sites:	NotI-NotI
ACCN:	NM_138555
Insert Size:	3870 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:	<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_138555.1</u> , <u>NP_612565.1</u>
RefSeq Size:	3636 bp
RefSeq ORF:	2883 bp
Locus ID:	9493
UniProt ID:	<u>Q02241</u>
Cytogenetics:	15q23
Domains:	kinesin

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 (1) represents the longest transcript and encodes the longest isoform (1).