

Product datasheet for **SC127189**

MKLP1 (KIF23) (NM_004856) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKLP1 (KIF23) (NM_004856) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF23
Synonyms:	CHO1; KNSL5; MKLP-1; MKLP1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004856, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTCAGCGAGAGCTAAGACACCCCGAAACCTACCGTGAAAAAGGGTCCCAAACGAACCTTAAAG
ACCCAGTTGGGGTATACTGTAGGGTGCGCCCACTGGGCTTTCCTGATCAAGAGTGTTCATAGAAGTGAT
CAATAATACAACCTGTTTCAGCTTTCATACTCCTGAGGGCTACAGACTCAACCGAAATGGAGACTATAAGGAG
ACTCAGTATTCATTTAAACAAGTATTTGGCACTCACACCACCCAGAAGGAACTCTTTGATGTTGTGGCTA
ATCCCTTGGTCAATGACCTCATTTCATGGCAAAAAATGGTCTTCTTTTACATATGGTGTGACGGAAGTGG
AAAAACTCACACAATGACTGGTTCTCCAGGGGAAGGAGGGCTGCTTCTCGTTGTTTGGACATGATCTTT
AACAGTATAGGGTCATTTCAAGCTAAACGATATGTTTTCAAATCTAATGATAGGAATAGTATGGATATAC
AGTGTGAGGTTGATGCCTTATTAGAACGTGAGAAAAGAGAAGCTATGCCCAATCCAAAGACTTCTCTAG
CAAACGACAAGTAGATCCAGAGTTGCAGATATGATAACTGTACAAGAATTCTGCAAAGCAGAAGAGGTT
GATGAAGATAGTGTCTATGGTGTATTTGTCTCTTATATTGAAATATATAAATAATTACATATATGATCTAT
TGGAAGAGGTGCCGTTTGTATCCATAAAACCCAAACCTCCACAATCTAAATTGCTTCGTGAAGATAAGAA
CCATAACATGTATGTTGCAGGATGTACAGAAGTTGAAAGTAAATCTACTGAGGAGCTTTTGAAGTTTTTC
TGGAGAGGCCAGAAAAAGAGACGTATTGCTAATACCCATTTGAATCGTGAGTCCAGCCGTTCCCATAGCG
TGTTCAACATTAATTAGTTTCAGGCTCCCTTGGATGCAGATGGAGACAATGTCTTACAGGAAAAAGAACA
AATCACTATAAGTCAGTTGTCCTTGGTAGATCTTGCTGGAAGTGAAGAATAACCGGACCAGAGCGAGAA
GGGAACAGATTACGTGAAGCTGGTAATATTAATCAGTCACTAATGACGCTAAGAACATGTATGGATGTCC
TAAGAGAGAACCAAAATGTATGGAACCAACAAGATGGTTCATATCGAGATTCAAAGTTAACCCATCTGTT
CAAGAATACTTTGATGGGAAGGAAAAGTGCAGATGATCGTGTGTGTGAACCCCAAGGCTGAAGATTAT
GAAGAAAACCTTGAAGTCATGAGATTTGCGGAAGTGACTCAAGAAGTTGAAGTAGCAAGACTGTAGACA
AGGCAATATGTGGTTTAAACGCCTGGGAGGAGATACAGAAAACAGCCTCGAGGTCCAGTTGGAATGAACC
ATTGGTTACTGACGTGGTTTTGCAGAGTTTTCCACCTTTGCCATCATGCGAAATTTGGATCAACGAT
GAGCAGACACTTCCAAGGCTGATTGAAGCCTTAGAGAAACGACATAAATTACGACAAATGATGATTGATG
AGTTTAAACAAACAATCTAATGCTTTTAAAGCTTTGTTACAAGAATTTGACAATGCTGTTTTAAGTAAAGA
AAACCACATGCAAGGGAACTAAATGAAAAGGAGAAGATGATCTCAGGACAGAAATTGGAATAGAACGA
CTGGAAAAGAAAAACAAAACCTTTAGAATATAAGATTGAGATTTTAGAGAAAACACTACTATCTATGAGG
AAGATAAACGCAATTTGCAACAGGAACTTGAACCTCAGAACCAGAACTTCAGCGACAGTTTTCTGACAA
ACGCAGATTAGAAGCCAGGTTGCAAGGCATGGTGACAGAAACGACAATGAAGTGGGAGAAAGAATGTGAG
CGTAGAGTGGCAGCCAAACAGCTGGAGATGCAGAATAAACTCTGGGTTAAAGATGAAAAGCTGAAACAAC
TGAAGGCTATTGTTACCGAACCTAAAACCTGAGAAGCCAGAGAGACCCCTCTCGGGAGCGAGATCGAGAAAA
AGTTACTCAAAGATCTGTTTCTCCATCACCTGTGCCTTTACTCTTTCAACCTGATCAGAACGCACCACCA
ATTCGCTCCGACACAGACGATCACGCTCTGCAGGAGACAGATGGGTAGATCATAAGCCCGCCTCTAACA
TGCAAACCTGAAACAGTCATGCAGCCACATGTCCCTCATGCCATCACAGTATCTGTTGCAATGAAAAGGC
ACTAGCTAAGTGTGAGAAGTACATGCTGACCCACCAGGAACTAGCCTCCGATGGGAGATTGAAACTAAA
CTAATTAAGGGTGATATTTATAAAACAAGGGGTGGTGGACAATCTGTTTCAGTTTACTGATATTGAGACTT
TAAAGCAAGAATCACCAATGGTAGTCGAAAACGAAGATCTTCCACAGTAGCACCTGCCAACCCAGATGG
TGCAGAGTCTGAATGGACCGATGTAGAAAACAAGTGTTCTGTGGCTGTGGAGATGAGAGCAGGATCCCAG
CTGGGACCTGGATATCAGCATCACGCACAACCCAAAGCGAAAAAGCCATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004856 unedited</p> <pre>CGACTTTTATAGGCGGCCGCGAATTCGGCACGAGGCTAGTTCTTGCTGCCGGTCTTAAC GTCCCCGAGTCTTCGCCAGCCAGCCGTCGCCGATGCGCGTTTGGGCGGCGTGGAGCCTGC TGCCATGAAGTCAGCGAGAGCTAAGACACCCCGAAACCTACCGTGAAAAAGGGTCCCA AACGAACCTTAAAGACCCAGTTGGGGTATACTGTAGGGTGCGCCCACTGGGCTTTCCTGA TCAAGAGTGTTCATAGAAGTGATCAATAATACTGTTCACTTCATACTCCTGAGGG CTACAGACTCAACCGAAATGGAGACTATAAGGAGACTCAGTATTCATTTAAACAAGTATT TGGCACTCACACCACCCAGAAGGAACCTTTGATGTTGTGGCTAATCCCTTGGTCAATGA CCTCATTGATGGCAAAAATGGTCTTCTTTTACATATGGTGTGACGGGAAGTGGAAAAAC TCACACAATGACTGGTCTCCAGGGGAAGGAGGGCTGCTTCTCGTTGTTTGGACATGAT CTTTAACAGTATAGGGTCATTTCAAGCTAAACGATATGTTTTCAAATCTAATGATAGGAA TAGTATGGATATACAGTGTGAGTTGATGCCTATTAGAACGTCAGAAAAGAGAAGCTAT GCCCAATCCANAGACTTCTTCTAGCCAACGACAAGTAGATTTCAGAGTTTGCAGATATGAT AACTGTACAAGAATTCTGCAAAGCAGAAGAGGGTGANGAAGAAAAGCGCCTATGGGTATTT GCCTCTTATTTGCAACATATAATAACTACCTATATGACCTATTGGAAGAGGGGNGTTTTG ATCCCATAAAACCCAGTGGTACAGTGGCGCCCCACCCTGAAGAACACGTATCTGGACCCC CCAACATAAATTGCTCTGAGAGAAAGAACCTAACCTGTTGTGCCGAGTCCCAAGTTGAG TGAATTCCTGTGGAGCTCTGTGAATTTTGGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004856 unedited</p> <pre>AGAGTCGAGTTTTTTTTTTTTTTTTTTTATTCTTAGTGCTTTTGATTTTAATTCTTTTGG CATATCTAAATGTCAGAAAGTGAATATATACATACAGAATTCAAAACACCTTCTAAAAT GGTTATTATTGGCCAGTCATTTACATCTTTATTTTGAAAGTCTGAATTGTCAAATAGTTC TAAAGCGCATTCTGTAGCTAATAAATACCAGCATTGTTTATAAAACCTTAAGAAATTC ACACCAGGGCTGGAGAAGCCACAATAAAAAACCAGACATGATCTACATATACCCTTCCCT ACTCATTAAGACAAACACTCGTGCAATCAGCTCATAAGCCTACATGAAATATATTCTA AAAAAACATTATAAAACAACCCATACAGCGATGAACAAAGGACCCTCCCTCTGCTCATTAA TCCTAAATATGGCCACCACACTATAACAAGGCCCGCGAACACTAATGGTCCCTGGAC CATAGGGAAAGCCCTGCTCTCGCCATGCTTCATGCACCTGTGCCCCATTCTCACTAAC CTGACTTTCAGACCTGCACACTGCCGCTGGCCCTTCAACCTCCCCCCCCACAC GTTCTTTACCCTGGCCCGTCTTTATGTTTTCTCCGTGCTTGCCCCACCCCTTTTCC CCCTTGGCCCTCCCCCTCCTCCCTGCCCATCTCCTCCCTCCCGTCTTCCCACCTC TTTCCACCCCTCCCTCCGTCTCCTCCCTCTTCCCTTTCGCCCCCTCCCCCGC CCCTCCCGTCCCCCTCTCATCCCTCCCGCCCTCCCTCTCTATCTCGTCTCCTCC CTCCTTGTCCCCGCTCCACCGCGCCCCCTCTCCCCCTCATTCCCGCTTATCT CCTCTCCTCTTGATCTTCCCTTCTACTCCCCCACCTCCCGTCCCATCCTCCCC C</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004856
Insert Size:	3270 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_004856.4](#), [NP_004847.2](#)

RefSeq Size: 3415 bp

RefSeq ORF: 2571 bp

Locus ID: 9493

UniProt ID: [Q02241](#)

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 (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. It encodes isoform 2 which is shorter compared to isoform 1.