

Product datasheet for **MC228311**

Klc1 (NM_001025362) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klc1 (NM_001025362) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Klc1
Synonyms:	A1874768; Kn; Kns2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228311 representing NM_001025362
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTATGACAACATGTCCACCATGGTGTACATAAAGGAAGAGAAGCTGGAGAAGCTCACGCAGGATGAGA
 TCATCTCTAAGACCAAGCAAGTATCCAGGGGCTGGAAGCCCTGAAGAATGAGCACAACCTCCATCCCTGCA
 GAGTTTGTCTGGAGACGCTGAAGTCTTGAAGAAGGATGACGAGAGCAACCTGGTGGAAAGAGAAATCCAGC
 ATGATCCGCAAGTCCCTGGAGATGCTGGAGCTTGGCTGAGCGAGGCGCAGGTGATGATGGCGCTGTCCA
 ATCACCTGAATGCTGTGGAGTCCGAGAAGCAAAAGCTCCGCGCTCAGTTTCGACGGCTGTGCCAGGAGAA
 CCAGTGGCTGCGGGATGAGCTGGCAACACGCAGCAGAAGTTGCAGAAGAGCGAGCAGTCGGTGGCGCAG
 CTGGAGGAGGAGAAGAAACACCTGGAGTTCATGAACCAGCTGAAGAAGTACGACGACGACATCTCCCCT
 CGGAGGACAAAGACTCTGATTCTTCAAAGAGCCGTTGGATGATCTTCCCAAATGACGAGGACGAACC
 AGGACAAGGAATCCAGCAGCAGCACAGTAGTGCTGCGGCCGCGCCAGCAGGGCGGCTACGAGATCCCT
 GCAAGGCTGCGCAGCTCCACAACCTGGTATCCAGTATGCTTACAGGGGCGTTACGAGGTGGCGGTGC
 CACTCTGCAAGCAGGCCCTGGAGGATCTGGAGAAGACTTCCGGCCACGACCACCCCGATGTGGCTACCAT
 GCTCAACATCTTGGCCCTGGTGTACAGGGATCAGAACAAGTATAAAGATGCAGCTAACCTCCTGAACGAC
 GCCCTGGCTATCCGCGAGAAAACCTGGGCAGAGATCACCCCGCGGTGGCAGCGACTCTGAACAACCTAG
 CAGTACTGTACGGTAAGCGAGGGAAGTACAAGGAGGCGGAGCCGCTGTGTAACGAGCCCTGGAGATCAG
 GGAGAAGTCTGGAAAGGATCATCCTGATGTTGCCAAACAGTTAAATAACCTGGCCCTGCTGTGCCAG
 AACCAGGGCAAGTACGAGGAGGTGGAGTATTATTACCAGAGGGCCCTGGGCATCTACCAGACGAAGCTGG
 GGCCCGACGATCCCAACGTGGCCAAGACCAAGAACAACCTGGCCCTCTGTTATCTGAAACAAGGGAAGTT
 CAAGCAGGCAGAAACGCTGTACAAGGAGATTCTACCCGCGCACACGAGCGGGAGTTGGATCTGTGGAC
 GACGAGAACAAGCCCATCTGGATGCACGCTGAAGAGAGAGAGGAGTGCAAGGCAAGCAGAAGGACGGGT
 CGGCTTTTGGAGAGTATGGCGGCTGGTATAAAGCCTGCAAAGTGGACAGTCCCACCGTCACAACCACCTT
 GAAAAACCTTGGAGCACTTACCAGCGCAGGGGAAGTTTGAAGCTGCAGAGACATTGGAAGAAGCCGCC
 ATGAGGTCACGTAAGCAGGCTTGTACAATGTTCAACAACAGAGAGTGGCTGAAGTGCTAAATGACCCTG
 AGAGCATGGAGAAGCGGAGGAGCCGGGAGAGTCTCAATATGGACGTGGTCAAGTACGAGAGTGGCCCTGA
 CGGAGGGGAGGAAGGCATCCCCCGAGAGCCTTTGTGTGAAAAACGACAGCAGCAGCCTAGAAGACGC
 TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001025362
- Insert Size:** 1683 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001025362.2](#), [NP_001020533.2](#)

RefSeq Size: 1928 bp

RefSeq ORF: 1683 bp

Locus ID: 16593

Cytogenetics: 12 61.13 cM

Gene Summary: Conventional kinesin is a tetrameric molecule composed of two heavy chains and two light chains, and transports various cargos along microtubules toward their plus ends. The heavy chains provide the motor activity, while the light chains bind to various cargos. This gene encodes a member of the kinesin light chain family. It associates with kinesin heavy chain through an N-terminal domain, and six tetratricopeptide repeat (TPR) motifs are thought to be involved in binding of cargos such as vesicles, mitochondria, and the Golgi complex. Thus, kinesin light chains function as adapter molecules and not motors per se. Although previously named "kinesin 2", this gene is not a member of the kinesin-2 / kinesin heavy chain subfamily of kinesin motor proteins. Extensive alternative splicing produces isoforms with different C-termini that are proposed to bind to different cargos; however, the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (g) uses an alternate splice site, lacks an alternate exon in the 3' coding region and 3' UTR, and has an alternate exon in the 3' UTR, compared to variant d. The resulting protein (isoform 1G) is shorter and has a distinct C-terminus, compared to isoform 1D.