

## Product datasheet for **MC218194**

### **Klc1 (NM\_008450) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Klc1 (NM_008450) 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:** >MC218194 representing NM\_008450  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTATGACAACATGTCCACCATGGTGTACATAAAGGAAGAGAAGCTGGAGAAGCTCACGCAGGATGAGA  
 TCATCTCTAAGACCAAGCAAGTATCCAGGGCTGGAAGCCCTGAAGAATGAGCACAACCTCCATCCTGCA  
 GAGTTTGTCTGGAGACGCTGAAGTCTTGAAGAAGGATGACGAGAGCAACCTGGTGGAAAGAAAATCCAGC  
 ATGATCCGCAAGTCCCTGGAGATGCTGGAGCTTGGCTGAGCGAGGCGCAGGTGATGATGGCGCTGTCCA  
 ATCACCTGAATGCTGTGGAGTCCGAGAAGCAAAAGCTCCGCGCTCAGTTTCGACGGCTGTGCCAGGAGAA  
 CCAGTGGCTGCGGGATGAGCTGGCCAACACGCAGCAGAAGTTGCAGAAGAGCGAGCAGTCGGTGGCGCAG  
 CTGGAGGAGGAGAAGAACACCTGGAGTTCATGAACCAGCTGAAGAAGTACGACGACGACATCTCCCCT  
 CGGAGGACAAAGACTCTGATTCTTCAAAGAGCCGTTGGATGATCTTCCCAAATGACGAGGACGAACC  
 AGGACAAGGAATCCAGCAGCAGCACAGTAGTGCTGCGGCCGCCAGCAGGGCGGCTACGAGATCCCT  
 GCAAGGCTGCGCAGCTCCACAACCTGGTATCCAGTATGCTTACAGGGGCGTTACGAGGTGGCGGTGC  
 CACTCTGCAAGCAGGCCCTGGAGGATCTGGAGAAGACTTCCGGCCACGACCACCCCGATGTGGCTACCAT  
 GCTCAACATCTTGGCCCTGGTGTACAGGGATCAGAACAAGTATAAAGATGCAGCTAACCTCCTGAACGAC  
 GCCCTGGCTATCCGCGAGAAAACCTGGGCAGAGATCACCCCGCGGTGGCAGCGACTCTGAACAACCTAG  
 CAGTACTGTACGGTAAGCGAGGGGAAGTACAAGGAGGCGGAGCCGCTGTGTAAACGAGCCCTGGAGATCAG  
 GGAGAAGTCTGGGAAAGGATCATCCTGATGTTGCCAAACAGTTAAATAACCTGGCCCTGCTGTGCCAG  
 AACCAGGGCAAGTACGAGGAGTGGAGTATTATTACCAGAGGGCCCTGGGCATCTACCAGACGAAGCTGG  
 GGCCCGACGATCCCAACGTGGCCAAGACAAGAACAACCTGGCCCTCTGTTATCTGAAACAAGGGAAGTT  
 CAAGCAGGCAGAAACGCTGTACAAGGAGATTCTACCCGCGCACACGAGCGGGAGTTGGATCTGTGGAC  
 GACGAGAACAAGCCATCTGGATGCACGCTGAAGAGAGAGAGGAGTGCAAGGCAAGCAGAAGGACGGGT  
 CGGCTTTTGGAGAGTATGGCGGCTGGTATAAAGCCTGCAAAGTGGACAGTCCCACCGTCACAACCACCTT  
 GAAAAACCTTGGAGCACTTACCAGCGCAGGGGAAGTTTGAAGCTGCAGAGACATTGGAAGAAGCCGCC  
 ATGAGGTCACGTAAGCAGGCTTGTACAATGTTCAACAACAGAGAGTGGCTGAAGTGCTAAATGACCCTG  
 AGAGCATGGAGAAGCGGAGGAGCCGGGAGAGTCTCAATATGGACGTGGTCAAGTACGAGAGTGGCCCTGA  
 CGGAGGGAGGAAGCC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008450

**Insert Size:** 1629 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\\_008450.2](#), [NP\\_032476.2](#)

**RefSeq Size:** 2398 bp

**RefSeq ORF:** 1629 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 (a) uses an alternate splice site and alternate exon in the 3' coding region and 3' UTR, compared to variant d. The resulting protein (isoform 1A) is shorter and has a distinct C-terminus, compared to isoform 1D.