

## Product datasheet for **RC226028**

### **KLC1 (NM\_001130107) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KLC1 (NM_001130107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KLC1
Synonyms:	KLC; KNS2; KNS2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226028 representing NM\_001130107  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTATGACAACATGTCCACAATGGTGTACATAAAGGAAGACAAGTTGGAGAAGCTTACACAGGATGAAA  
 TTATTTCTAAGACAAAGCAAGTAATTCAGGGGCTGGAAGCTTTGAAGAATGAGCACAAATCCATTTTACA  
 AAGTTTGTCTGGAGACACTGAAGTGGTGAAGAAAGATGATGAAAGTAATTTGGTGGAGGAGAAATCAAAC  
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 TCAGTGGTACGGGATGAACTGGCCAACACGCAGCAGAACTGCAGAAGAGTGAGCAGTCTGTGGCTCAA  
 CTGGAGGAGGAGAAGAAGCATCTGGAGTTTATGAATCAGCTAAAAAATATGATGACGACATTTCCCAT  
 CCGAGGACAAAGACACTGATTCTACCAAGAGCCTCTGGATGACCTTTTCCCAATGATGAAGACGACCC  
 AGGGCAAGGAATCCAGCAGCAGCACAGCAGTGCAGCCGCGCTGCCAGCAGGGCGGCTACGAGATCCCC  
 GCGCGGCTGCGGACGCTCCACAACCTGGTATCCAGTACGCCCTCGCAGGGGCGCTACGAGGTAGCTGTGC  
 CCCTCTGCAAGCAGGCCCTGGAGGACCTGGAGAAGACTTCAGGACACGACCACCCGGACGTGGCCACCAT  
 GCTCAACATCCTGGCCTTGGTGTACAGGGATCAGAATAAATACAAAGATGCAGCTAACCTACTGAATGAT  
 GCCTTGGCTATTCGTGAGAAAACTTTGGGCAAAGATCATCCTGCGGTGGCGGCGACTTTGAATAACCTTG  
 CAGTCTTTATGGTAAAAGAGGGGAAGTACAAAGAAGCAGAGCCGTTGTGTAAAAGAGCTCTGAAATCCG  
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 AACCAGGGCAAGTATGAAGAAGTAGAATATTATTATCAAAGAGCCCTCGAGATCTACCAGACAAAACCTGG  
 GACCTGATGACCCCAACGTGGCTAAGACGAAAAATAACCTGGCATCCTGCTATTTGAAACAAGGAAAGTT  
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 AAAAAACCTTGGGGCACTTTACAGAGCTCAAGGCAAATTTGAAGCTGCAGAAACGTTAGAAGAAGCTGCT  
 ATGAGGTCTCGTAAACAGGGTCTTGACAATGTTCAAAACAGAGGGTGGCAGAAGTGTCAATGACCCTG  
 AGAACATGGAGAAGCGCAGGAGCCGTGAGAGCCTCAACGTGGACGTGGTCAAGTACGAGAGTGGCCCTGA  
 CGGAGGGGAGGAAGTGAATGAGCGTAGAGTGAACGGGGATGGCACTGGATCTTTAAACGCAGTGGT  
 TCCTTTAGCAAACCTCCGGCTTCCATTAGACGCAGCAGTGAAGCTGGTTAGGAAGCTGAAGGGAGGAA  
 GTTCACGAGAGAGTGAGCCAAAGAACCCCGGGGCTCTCTGGCCGAGCCTTTTTTGTGGAAAACGACAG  
 CAGCAGCAGTGGCCTGGAAGACGCCACCGCTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226028 representing NM\_001130107  
 Red=Cloning site Green=Tags(s)

MYDNMSTMVYIKEDKLEKLTQDEIISKTKQVIQGLEALKNEHNSILQSLLETCLKLKKDDSNLVEEKSN  
 MIRKSLEMLELGLSEAQVMMALSNHLNAVESEKQKLRAQVRRLCQENQWLRDELANTQQKLKSEQSVAQ  
 LEEEEKHLEFMNQLKKYDDDISPSEDKDSTKEPLDDLFPNDEDDPGQGIQQQHSSAAAAAQGGYEIP  
 ARLRTLHNLVIQYASQGRYEVAVPLCKQALEDLEKTSGHDPDVATMNLILALVYRDQNKYKDAANLLND  
 ALAIREKTLGKDHPAVAATLNNLAVLYGKRGKYKEAEPLCKRALEIREKVLGKDHDPVAKLNNLALLCQ  
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 DENKPIWMHAEERECKGKQKDGTSFGEYGGWYACKVDSPTVTTLKNL GALYRRQGKFEAAETLEEAA  
 MRSRKQGLDNVHKQRVAEVLNDPENMEKRRSRESLNVVVKYESGPDGGEEVSMSEVWNGDGTGSLKRS  
 SFSKLRASIRRSSEKLVRLKGGSSRESEPKNPGASLAEPLFVENDSSSSGLEDTAN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV



UniProt ID: [Q07866](#)

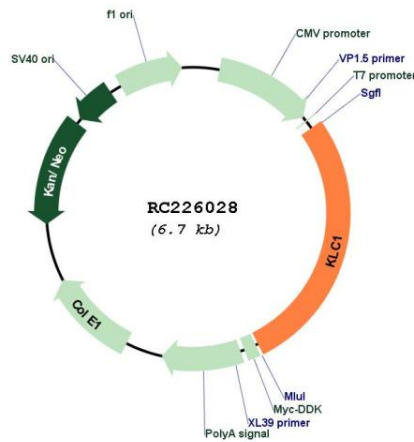
Cytogenetics: 14q32.33

Protein Families: Druggable Genome

MW: 69.6 kDa

**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 and/or biological validity of most of these variants have not been determined. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC226028