

Product datasheet for **SC308041**

KLC4 (NM_201522) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_201522) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLC4
Synonyms:	bA387M24.3; KNSL8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308041 representing NM_201522.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTCAGGCCTGGTGTGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTG
GGGAGCACACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAGC
CTGTCCCAGACCATTTAGTGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCAATGAGAAGGCCCGG
CAGCTTCGCCGTTCTATGAAAAACATTGAGCTCGGGCTGAGTGAGGCCAGGTGATGCTGGCTCTAGCC
AGCCACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCCGCTATGCCAGGAG
AACCAGTGGCTGCGGGATGAGCTGGCTGGCACCCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGGCT
CAGCTGGAGGAGAAAAGAAGCACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACAT
ACCTCGGAGGAGAAAAGAAGCGATGCCACCAAGGATTCCCTGGATGACCTCTTCTCTAATGAGGAGGAA
GAGGACCCAGCAATGGCTTGTCCCGTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATC
CCAGCAAGGTTGCGGACGTTGCACAACCTGGTATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCC
GTGCCACTCTGTAAAGCAGCACTAGAGGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTGCC
ACCATGCTCAACATCCTTGGTGTATCGTGACCAGAATAAGTATAAGGAAGCTGCCACCTGCTG
AATGATGCCCTTAGCATCCGGGAGAGCACCTTGGGACCTGACCATCCTGTGTGGCTGCCACACTCAAC
AATTTGGCTGTCTCTATGGCAAAAGGGCAAGTACAAGGAGGCAGAGCCTCTGTGCCAGCGGGCACTG
GAGATTCGAGAAAAGGTCCTGGGCACGAATCATCCAGATGTGGCAAAACAGCTGAACAACCTGGCCCTC
TTGTGCCAAAACAGGGCAAGTATGAGGCCGTGGAACGCTACTACCAGCGAGCACTGGCCATCTACGAG
GGGCAGCTGGGGCCGACAACCTAATGTAGCCCGGACCAAGAACAACCTGGCTTCCTGTTACCTGAAA
CAGGGCAATATGCTGAGGCTGAGACACTATACAAAGAGATCCTGACCCGTGCCATGTACAGGAGTTT
GGTCTGTGGATGATGACCACAAGCCCATCTGGATGCATGCAGAGGAGCGGGAGGAAATGAGCAAAAGC
CGGCACCATGAGGGTGGGACACCTATGCTGAGTATGGAGGCTGGTACAAGGCCTGCAAAGTGAGCAGC
CCCACAGTGAACACTACTCTGAGAAACCTGGGAGCTCTGTATAGCGCCAGGGAAAGCTGGAGGCTGCT
GAGACCTGGAGGAATGTGCCCTGCGGTCCCGGAGACAGGGCACTGACCCTATCAGCCAGACGAAGTG
GCAGAGCTGCTTGGGAGAGTGTGGTAGAAGGACCTCCAGGAGGGCCCTGGAGACAGTGTGAAATTC
GAGGGAGGTGAAGATGCTTCTGTGGCTGTGGAGTGGTCCGGGGATGGCAGTGGGACCCTGCAGAGGAGT
GGCTCTCTTGGCAAGATCCGGGATGTGCTCCGAGAAGCAGTGAACCTTGGTGAGGAAGCTCCAGGGG
ACTGAGCCTCGGCCCTCCAGCAGCAACATGAAGCGAGCAGCCTCCTTGAACATCTGAACCAACCTAGT
GCAGCACCCCTCCAGGTCTCCCGGGGCTCAGTGCCAGCACCATGGACCTCTCTCAAGCAGCTGA
ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_201522

Insert Size: 1860 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_201522.2](#)

RefSeq Size: 2820 bp

RefSeq ORF: 1860 bp

Locus ID: 89953

UniProt ID: [Q9NSK0](#)

Cytogenetics: 6p21.1

Protein Families: Druggable Genome

MW: 68.6 kDa

Gene Summary: Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity (By similarity).[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 3. Variants 1, 2 and 5 encode the same isoform (a), which has a shorter N-terminus, compared to isoform b.