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Product datasheet for SC307092

KLC3 (NM_177417) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC3 (NM_177417) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLC3
Synonyms:	KLC2; KLC2L; KLCt; KNS2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC307092 representing NM_177417.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTGTGCAGGTAGCGGCTCCTGGAAGTGCAGGGCTGGGCCCAGAGCGCCTGAGCCCTGAGGAGCTG
GTGCGGCAGACGCGGCAAGTGGTCCAGGGGCTGGAGGCGCTGCGGGCAGAGCACCATGGCCTGGCTGGG
CACCTGGCGGAGGCCCTGGCGGGACAGGGCCCGGCAGCCGGCTTGGAGATGCTGGAGGAAAAGCAGCAG
GTGGTGAGCCACTCGCTGGAGGCCATCGAGCTGGGGCTGGGCGAGGCCCAGGTGCTGCTGGCCCTGTCG
GCACATGTGGGTGCACTGGAGGCAGAGAAGCAGCGGCTGCGCTCGCAGGCCCGGCGGCTGGCCCAGGAG
AACGTGTGGCTGCGGGAGGAACTGGAGGAGACGCAGCGGCGGCTTCGGGCCAGCGAGGAGTCCGTGGCC
CAGCTGGAGGAGGAGAAGCGCCACCTGGAGTTCCTGGGGCAGCTGCGACAGTACGACCCACCGGCGGAG
AGCCAGCAGTCTGAGTCCCCGCCTCGCCGAGACAGCCTGGCCTCCCTGTTCCCCAGCGAGGAGGAGGAG
AGGAAAGGTCCTGAGGCCGCAGGAGCAGCAGCTGCTCAGCAGGGTGGCTATGAGATCCCTGCCCGCCTT
CGGACCCTGCATAACCTCGTGATCCAGTACGCGGGGCAGGGCCGCTATGAGGTGGCGGTGCCTCTGTGC
CGCCAGGCCTTGGAGGACCTGGAGCGCAGCTCGGGCCACTGCCACCCTGACGTGGCCACCATGCTCAAC
ATCCTGGCGCTGGTGTACCGGGACCAGAACAAGTACAAAGAAGCCACAGACCTTCTCCATGATGCCCTG
CAGATCCGGGAGCAGACGCTGGGCCCTGAGCACCCCGCGGTGGCCGCCACGCTCAACAACTTGGCTGTC
CTCTATGGGAAGCGTGGGCGTTACCGGGAGGCAGAGCCCCTGTGCCAGCGCGCTTTGGAGATCCGAGAG
AAGGTCCTGGGTGCTGACCACCCAGATGTGGCCAAGCAGCTCAACAACCTGGCCCTGCTGTGCCAGAAC
CAGGGCAAGTTTGAGGACGTGGAGCGGCACTATGCCCGGGCCCTGAGCATCTATGAGGCACTGGGCGGG
CCCCATGACCCCAACGTGGCCAAGACCAAGAACAACCTGGCCTCAGCCTACCTGAAACAGAACAAGTAT
CAACAAGCGGAAGAGCTGTACAAAGAAATCCTCCACAAGGAGGACCTACCCGCCCCTCTCGGTGCCCCC
AACACAGGCACAGCTGGTGACGCAGAACAGGCCCTTCGCCGCAGCAGCTCACTCTCCAAGATCCGTGAG
TCTATCAGGCGAGGAAGTGAGAAGCTGGTCTCCCGGCTCCGAGGCGAGGCGGCGGCAGGAGCAGCCGGA
ATGAAGAGAGCCATGTCACTCAACACACTGAACGTGGATGCTCCAAGGGCTCCTGGGACTCAGTTTCCC
AGCTGGCACCTGGACAAGGCCCCTCGGACCCTCAGCGCCAGCACCCAGGACCTGAGCCCCCACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_177417

Insert Size: 1515 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_177417.2
RefSeq Size:	1793 bp
RefSeq ORF:	1515 bp
Locus ID:	147700
UniProt ID:	Q6P597
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome
MW:	55.4 kDa
Gene Summary:	This gene encodes a member of the kinesin light chain gene family. Kinesins are molecular motors involved in the transport of cargo along microtubules, and are composed of two kinesin heavy chain (KHC) and two kinesin light chain (KLC) molecules. KLCs are thought to typically be involved in binding cargo and regulating kinesin activity. In the rat, a protein similar to this gene product is expressed in post-meiotic spermatids, where it associates with structural components of sperm tails and mitochondria. [provided by RefSeq, Jul 2008]