

Product datasheet for **SC111857**

KLC4 (NM_138343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KLC4 (NM_138343) Human Untagged Clone
Tag:	Tag Free
Symbol:	KLC4
Synonyms:	bA387M24.3; KNSL8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138343, the custom clone sequence may differ by one or more nucleotides

ATGTCAGGCCTGGTGTGGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGG
 GGAGCACACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAGCCT
 GTCCCAGACCATGAGTGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCATGAGAAGGCCCGGCAG
 CTTGCGCGTTCTATGGAACATTGAGCTCGGGCTGAGTGAGGCCAGGTGATGCTGGCTCTAGCCAGCC
 ACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCGGGCTCAGGTGCGGCGGCTATGCCAGGAGAACCA
 GTGGCTGCGGGATGAGCTGGCTGGCACCCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGGCTCAGCTG
 GAGGAGGAAAAGAAGCACCTGGAGTTCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCGG
 AGGAGAAAAGAAGGCGATGCCACCAAGGATTCCCTGGATGACCTCTTCTAATGAGGAGGAAGAGGACCC
 CAGCAATGGCTTGTCCCCTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATATGAGATCCCAGCAAGG
 TTGCGGACGTTGCACAACCTGGTGATCCAGTACGCAGCCCAAGGTCGCTATGAGGTGGCCGTGCCACTCT
 GTAAGCAGGCACTAGAGGACCTGGAGCGCACATCAGGCCGTGGCCACCCTGATGTCGCCACCATGCTCAA
 CATCCTTGCTTTGGTGTATCGTGACCAGAATAAGTATAAGGAAGTGCCACCTGCTGAATGATGCCCTT
 AGCATCCGGGAGAGCACCTTGGACCTGACCATCCTGTGTCAGTATTCCTTGCCCTCCCCACCCACGC
 CCCGACCCCCCACCATTGCTGTTTTGGCTCTCTTAG


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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138343 unedited <pre> NNTTGTCAAAATTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACCAGGCGGCAGC CACACCGGCAGATTGCAGACCGGGCAAGGTCCCCAGGCCAGGATGTCAGGCCTGGTGTT GGGGCAGCGGGATGAGCCTGCAGGCCACCGGCTCAGCCAAGAGGAGATCCTGGGGAGCAC ACGGCTGGTCAGCCAAGGGCTAGAGGCCCTACGCAGTGAACACCAGGCCGTGCTGCAAAG CCTGTCCCAGACCATTGAGTGTCTGCAGCAGGGAGGCCATGAGGAAGGGCTGGTGCATGA GAAGGCCCGGCAGCTTCGCCGTTCTATGGAAAACATTGAGCTCGGGCTGAGTGAGGCCCA GGTGATGCTGGCTCTAGCCAGCCACCTGAGCACAGTGGAGTCGGAGAAACAGAAGCTGCG GGCTCAGGTGCGGCGGCTATGCCAGGAGAACCAGTGGCTGCGGGATGAGCTGGCTGGCAC CCAGCAGCGGCTACAGCGCAGTGAACAGGCTGTGCTTCAGCTTGGAGGAGGAAAAGAAGC ACCTGGAGTTCCTGGGGCAGCTGCGGCAGTATGATGAGGATGGACATACCTCNGNAGGAG AAAGAAGGCGATGCCACCAAGGATTCCCTGGATGACCTCTTCTNNNATGAGNNAGAAAG AGACCCAGCAATGGCTTGTCCCGTGGTCAAGGTGCTACAGCAGCTCAGCAGGGTGGATA TGAGATCCCNAGCANNGTGCGNACGTTGCACAACCTGNTGATCCAGTACGCAGCCCAAG TCGCTATNNGAGTGCCGTGCCACTCTGTAGCANGCACTAGNAGACCTGNAGCGCACATC CAGCCGTGGCACCTGATGTGCCACATGCTCAACATCCTGCTTTGTGTATCGTGACCA GATAAT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_138343
Insert Size:	2550 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_138343.2 , NP_612352.1
RefSeq Size:	1284 bp
RefSeq ORF:	948 bp
Locus ID:	89953
UniProt ID:	Q9NSK0
Cytogenetics:	6p21.1
Protein Families:	Druggable Genome

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 (4) differs in the 5' UTR and the 5' coding region and contains a 3' terminal exon that extends past a splice site, compared to variant 3. It encodes isoform c, which is shorter and has a distinct C-terminus, compared to isoform b.