

Product datasheet for **SC111146**

KBTBD10 (KLHL41) (NM_006063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KBTBD10 (KLHL41) (NM_006063) Human Untagged Clone
Tag:	Tag Free
Symbol:	KBTBD10
Synonyms:	KBTBD10; Krp1; SARCOSIN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006063, the custom clone sequence may differ by one or more nucleotides

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ATGGATTCCCAGCGGGAACCTGCAGAGGAACCTGCGGCTTTACCAATCCACCCTTCTTCAGGATGGTCTAA
AAGATCTCCTGGATGAGAAAAAATTCATCGATTGCACCCTAAAAGCAGGTGACAAAAGTCTTCCTTGCCA
CAGATTGATTTTGTAGCTTGTAGTCTTACTTCCGTGAGTACTTTTTATCTGAAATTGATGAGGCGAAA
AAAAAGGAGGTAGTGCTAGACAATGTGGATCCTGCTATACTTGATTTAATCATCAAAATACCTGTACTCTG
CCAGTATTGATCTCAATGACGGAATGTGCAAGATATTTTTGCATTGGCCAGCCGCTTTCAGATCCCCTC
AGTGTTTACTGTCTGCGTTTCTTATCTTCAGAAAAGACTTGCTCCTGGTAACTGTCTAGCCATCCTAAGA
TTAGGACTTCTTCTGACTGCCGAGACTCGCCATTTCTGCCGTGAATTTGTGTCTGATCGCTTTGTAC
AGATTTGTAAGGAAGAGGACTTTATGCAACTGTCTCCACAGGAAGTATCTCAGTCATTTCAAATGACAG
CCTAAATGTAGAAAAAGAAGAAGCAGTATTTGAGGCAGTGATGAAATGGTGCGAACAGACAAGGAAAAAC
AGGGTTAAAAACCTTAGTGAAGTGTGGATTGTATCCGTTTTCGCCTTATGACAGAAAAATATTTAAGG
ATCATGTTGAGAAAGATGATATAATTAAGCAACCCAGACCTCCAGAAAAAATCAAAGTTCTAAAAGA
TGCTTTTCGAGGCAAACTCCAGAACCTAGCAAAAATGCCGGAAGACTGGGGCTGGTGAGGTGAATGGT
GATGTTGGTGATGAAGATTTACTTCTGGTTACCTGAATGACATTTCCAGGCATGGAATGTTTGTAAAAG
ACCTCATCCTCTTGGTTAATGACACAGCAGCAGTGGCTTATGACCCACGGAAAAATGAATGCTACCTTAC
TGCACTGGCTGAGCAGATTTCCAGAAATCATTCCAGCATTGTTACCCAGCAAAAATCAGATATATGTGGTA
GGAGGACTATATGTGGATGAAGAAAAAAGGATCAACCTCTACAGTCATACTTCTCCAGCTCGATAGCA
TAGCATCTGAATGGGTTGGACTTCCACCTCTGCCTTCAGCCAGGTGTCTTTCGGTCTGGGAGAGGTGGA
TGATAAAATCTATGTAGTTGCAGGCAAGACTTCAAACAGAGGCTTCGCTGGATTGAGTATTGCTAT
GATCCTGTGGCTGCAAAAATGGAACGAAGTAAAAAACTCCCTATCAAAGTCTATGGCCATTAATGTGATTT
CACATAAAGGGATGATATATTGCTAGGAGGAAAAGACAGATGACAAAAAATGTACAAAACAGGGTGTAT
CTTCAACCCCAAAAAAGGAGATTGGAAAGATCTGGCTCCAATGAAAATTCCTCGTTCCATGTTTGGAGTA
GCAGTCCATAAAGGCAAAATTTGATTGCAAGGAGGTGCACTGAAGATGGTCTTTTCAGCTTCAGTTGAAG
CTTTTGACCTTACAACAAATAAATGGGATGTAATGACCGAATTTCCCAAGAAAGAAGCTCCATCAGTTT
GGTCAGCTGGCTGGATCTGTATGCAATTTGGTGGTTTTGCTATGATTCAACTGGAGTCTAAAGAATTT
GCACCCACTGAAGTCAATGACATATGGAAGTATGAAGATGATAAAAAAGAATGGGCTGGGATGTTGAAGG
AAATACGTTATGCTTCAGGAGCTAGTTGCCTAGCAACACGTTTAAATCTCTTCAAAGTCTAAACTGTG
A
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006063 unedited

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GGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCAGAGGGGAGCTAAG
GCCTTCAGTGTCCCCTTCTTACCCAGGTTTCTCACAGAATGGATTCCCAGCGGGAACCT
GCAGAGGAACTGCGGCTTTACCAATCCACCCTTCTTCAGGATGGTCTAAAAGATCCTCG
GGATGAGAAAAAATTCATCGATTGCACCCTAAAAGCAGGTGACAAAAGTCTTCCTTGCCA
CAGATTGATTTTGTAGCTTGTAGTCTTACTTCCGTGAGTACTTTTTATCTGAAATTGA
TGAGGCGAAAAAAGGAGGTAGTGCTAGACAATGTGGATCCTGCTATACTTGATTTAAT
CATCAAAATACCTGTACTCTGCCAGTATTGATCTCAATGACGGAATGTGCAAGATATTTT
TGCATTGGCCAGCCGCTTTCAGATCCCCTCAGTGTCTTACTGTCTGCGTTTCTTATCTTCA
GAAAAGACTTGCTCCTGGTAACTGTCTAGCCATCCTAAGATTAGGACTTCTTCTTGACTG
CCCAGACTCGCCATTTCTGCCGTGAATTTGTGTCTGATCGCTTTGTACAGATTTGTAA
GGAAGAGGACTTTATGCAACTGTCTCCACAGGAAGTATCTCAGTCATTTCAAATGACAG
CCTAAATGTAGAAAAAGAAGAAGCAGTATTTGAGGCAGTGATGAAATGGGTGCGAACAGA
CAAGGAAAAACAGGGTTAAAAACCTTAGTGAAGTGTGGATTGTATCCGTTTTCGCCTTAT
GACAGANAATATTTAAGGATCATGTTGAGAAAGAATGATATATTAAGCAACCCANAC
CTNCAGAAAAAATCAAGTTCTAAAGATGCTTTTCGAGGCAACTCCAACCTAGCANAAT
GCCGCGAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006063 unedited GCCGCATATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTGAATTTGACTACTTTTACTTAC AAGAGACTTTTCCCATCAAACGATTTCCCATCCATTATTACACTTCTGAAGTAGGAT TTCTGAAGTCATCTTATGGCATGTAATTTCTAGTATAATGCACAGGATTCCTGTCATTTT GAAGCACGAGGAGAGGTTTTGATATCTTAAACATTTTTTAGTGTAGATGCACATATTC TCCACTTCCAATTGTAATAGAAAATCAGTTTAAGGATACCCTAATGATGCAAATGAAATG ATTAGCAAACAACCTCAAATTTAGGAGCCTTCTTACAATCCATTGAGTAAACAGATTCA CAAAATAATTTGTTCAACTGAAGATTTAATTTATTATTAGAAAATGGTTTTAAACTCTGA TCATTACATTGAAGAGTCAATGACTGAGGTTTTCTTACCTACTGCTCATCTCTTAGACAA TAACCTTCTGAATAATTTCTACATGAGTGTCTGTACAAGCTTTTAAAAACAGAATAAAT TAAAGCCCATTACCAAACAACCCACCTCCCAATCTATTATGTTTTGTCACCTGTGTTCA CAGTTTATACAGCTTGAAGAGATTAACGTGTTGCTAGGCAACTAGCTCCTGAAGCATA CGTATTTCTTCCACATCCAGCCATTCTTTTTATCATCTTCTCCTCCCTATGCCCTT GCCTTCAGGGCGGCAACCCCTAAACTCCGCTGAACCTTACAAACCTCCATTGTTCTCT AATATCCAACCCGCGCCCACTGGCGGACCTTCTTCTGGGGAAATTTGGCATTACCT TCCATTTACTGTTGTGAGCCAAACCTTAACTCGCGCCCGAGAAACCTCTCCCGCATCCC CGTCCCTCCTAATTCNCCTCTTGCTCCCCCACACTCGACCACGCATCTGTCTTGCC TTCATCCTCACTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_006063
Insert Size:	2680 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:	<ol style="list-style-type: none"> 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:	<u>NM_006063.2</u> , <u>NP_006054.2</u>
RefSeq Size:	2472 bp
RefSeq ORF:	1821 bp
Locus ID:	10324
UniProt ID:	<u>O60662</u>
Cytogenetics:	2q31.1
Domains:	Kelch

Gene Summary:

This gene is a member of the kelch-like family. The encoded protein contains a BACK domain, a BTB/POZ domain, and 5 Kelch repeats. This protein is thought to function in skeletal muscle development and maintenance. Mutations in this gene have been associated with nemaline myopathy (NM), a rare congenital muscle disorder. [provided by RefSeq, Mar 2015]