

Product datasheet for **RG200295**

KBTBD10 (KLHL41) (NM_006063) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KBTBD10 (KLHL41) (NM_006063) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KBTBD10
Synonyms:	KBTBD10; Krp1; SARCOSIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200295 representing NM_006063
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGATTCCCAGCGGAACTTGCAGAGGAAGTGCAGGCTTTACCAATCCACCCTTCTTCAGGATGGTCTAA
 AAGATCTCCTGGATGAGAAAAAATTCATCGATTGCACCTAAAAGCAGGTGACAAAAGTCTTCCTTGCCA
 CAGATTGATTTTGTAGCTTGTAGTCTTACTCCGTGAGTACTTTTATCTGAAATTGATGAGGCGAAA
 AAAAGGAGGTAGTGCTAGACAATGTGGATCCTGCTATACTTGATTTAATCATCAATACCTGTACTCTG
 CCAGTATTGATCTCAATGACGGAATGTCAAGATATTTTGCATTGGCCAGCGCTTTCAGATCCCCTC
 AGTGTCTACTGTGCGTTTCTTATCTTCAGAAAAGACTTGCTCCTGGTAAGTGTCTAGCCATCCTAAGA
 TTAGGACTTCTTCTGACTGCCGAGACTCGCCATTTCTGCCGTGAATTTGTGTCTGATCGCTTTGTAC
 AGATTTGTAAGGAAGAGGACTTTATGCAACTGTCTCCACAGGAAGTATCTCAGTCATTTCAAATGACAG
 CCTAAATGTAGAAAAAGAAGAAGCAGTATTTGAGGCAGTGATGAAATGGGTGCGAACAGACAAGGAAAC
 AGGGTTAAAAACCTTAGTGAAAGTGTGATTGTATCCGTTTTCGCCTTATGACAGAAAAATATTTAAGG
 ATCATGTTGAGAAAGATGATATAATTAAGCAACCCAGACCTCCAGAAAAAATCAAAGTCTAAAAGA
 TGCTTTGCGAGGCAAACTCCAGAACCTAGCAAAAATGCCGCGAAGACTGGGGCTGGTGAGGTGAATGGT
 GATGTTGGTGATGAAGATTTACTTCCTGGTTACCTGAATGACATTCACAGGCATGGAATGTTTGTAAAG
 ACCTCATCCTCTTGTTAATGACACAGCAGCAGTGCGTTATGACCCACGGAAAAATGAATGCTACCTTAC
 TGCAGTGGCTGAGCAGATTCCAGAAATCATTCCAGCATTGTTACCCAGCAAAATCAGATATATGTGTA
 GGAGGACTATATGTGGATGAAGAAAAAAGGATCAACCTCTACAGTCATACTTCTCCAGCTCGATAGCA
 TAGCATCTGAATGGGTTGGACTTCCACCTCTGCCCTCAGCCAGGTGTCTTTCGGTCTGGGAGAGGTGA
 TGATAAAATCTATGTAGTTGACGCAAAAGACCTTCAAACAGAGGCTTCGCTGGATTCAATATTGCTAT
 GATCCTGTGGCTGCAAAATGGAACGAAGTAAAAAACTCCCTATCAAAGTCTATGGCCATAATGTGATTT
 CACATAAAGGGATGATATATTGTCTAGGAGGAAAGACAGATGACAAAAATGTACAAACAGGGTGTTTAT
 CTTCAACCCCAAAAAAGGAGATTGGAAGATCTGGCTCCAATGAAAATTCCTCGTTCCATGTTTGGAGTA
 GCAGTCCATAAAGGCAAAATTGTGATTGCAGGAGGTGCTCAAGATGGTCTTTCAGCTTCAGTTGAAG
 CTTTGTACCTTACAACAAATAAATGGGATGTAATGACCGAATTTCCCAAGAAAGAAGCTCCATCAGTTT
 GGTGAGCCTGGCTGGATCTCTGTATGCAATTGGTGGTTTTGCTATGATTCAACTGGAGTCTAAAGAATTT
 GCACCCACTGAAGTCAATGACATATGGAAGTATGAAGATGATAAAAAAGAATGGGCTGGGATGTTGAAGG
 AAATACGTTATGCTTCAGGAGCTAGTTGCCTAGCAACACGTTTAAATCTCTTCAAAGTGTCTAAAGT

ACGCGTACGCGGCGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200295 representing NM_006063
 Red=Cloning site Green=Tags(s)

MDSQRELAEEELRLYQSTLLQDGLKDLLDEKKFIDCTLKAGDKSLPCHRLILSACSPYFREYFLSEIDEAK
 KKEVVLDNVDPAILDLIIKYLVSASIDLNDGNVQDIFALASRFQIPSVFTVCVSYLQKRLAPGNCLAILR
 LGLLLDCPRLAISAREFVSDRFVQICKEEDFMQLSPQELISVISNDSL NVEKEEAVFEAVMKWVRTDKEN
 RVKNLSEVFDICIRFLMTEKYFKDHVEKDDIIKSNPDLQKKIKVLKDAFAGKLPEPSKNAKTGAGEVNG
 DVGDEDLLPGYLNDIPRHGMFVKDLILLVNDTAAVAYDPTENECYLTALAEQIPRNHSSIIVTQQNQIYVV
 GGLYVDEENKDQPLQSYFFQLDSIASEWVGLPPLPSARCLFGLGEVDDKIYVVAGKDLQTEASLDSVLCY
 DPVAAKWNEVKKLPIKVYGHNVISHKGMICYCLGGKTDDKKCTNRVFI FNPKKGDWKLAPMKIPRSMFGV
 AVHKGKIVIAGGVTEGLSASVEAFDLTTNKWDVMTFEPQERSSISLVSLAGSLYAIGGFAMIQLESKEF
 APTEVNDIWKYEDDKKEWAGMLKEIRYASGASCLATRLNLFKLSKL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006063

ORF Size: 1818 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006063.3](#)

RefSeq Size: 2472 bp

RefSeq ORF: 1821 bp

Locus ID: 10324

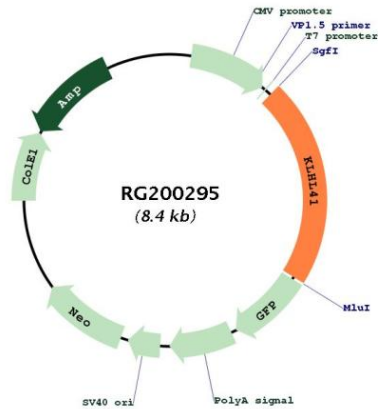
UniProt ID: [O60662](#)

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]

Product images:



Circular map for RG200295