

Product datasheet for **RC213832**

KBTBD5 (KLHL40) (NM_152393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	KBTBD5
Synonyms:	KBTBD5; NEM8; SRYP; SYRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC213832 representing NM_152393
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGCTGGGCTTGGAGCAGGCGGAGGAGCAGCGTTGTACCAGCAGACGCTCCTGCAAGACGGGCTCA
 AAGACATGCTGGACCATGGCAAGTTCTCGACTGTGTGGTGGGGCGGGCAGCGCGAGTCCCGTGCCA
 TCGCCTGGTGCTGGCGCCTGCAGCCCCACTTCCGGGCGCGCTTTCTAGCCGAGCCGAGCGCGCGGGC
 GAGCTGCACCTGGAGGAGGTGTCCCGGACGTGGTGGCCAGGTGCTGCACTACCTGTACACATCAGAGA
 TCGCGCTGGATGAGGCGAGCGTGCAAGATTTGTTGCGCGCGCACACCGCTTCCAGATCCCTTCCATCTT
 CACCATCTGCGTGTCTTCTGCAAGCGCTGTGCCTCTCAACTGCTTGGCCGTCTTCGCTCTCGGC
 CTCCTGCTCGACTGCGCGCTCTCGCCGTGGTGGCCGCACTTCACTGCGCTCACTTACGCTGGTGG
 CGCGCAGCGTGACTTCTCGACTCTCGGCCGACGAGCTCATCGCCATCATCTCCAGCGACGGCCTTAA
 CGTGGAGAAGGAGGAGGAGTGTTCGAGCGGTGATGCGGTGGGCGGGTAGCGGCGACGCCGAGGCGCAG
 GCTGAGCGCCAGCGCGCTGCCACCGCTTCGAGAGCGTGCGTGCCGCTTGTGCGCGCGCCTTTC
 TGGAAAGCCGCTGGAGCGCCACCCTCTCGTGCCTGCCAGCCGAGTTGCTGCGCAAGGTGCAGATGGT
 GAAGGATGCACACGAGGGCCGCATCACACGCTGCGGAAGAAAAAGAGGGAAGGATGGAGCCGGGGCC
 AAGGAGGCTGATAAGGGCACAAGCAAAGCCAAAGCAGAGGAGGATGAGGAGGCCGAACGTATCCTTCTG
 GGATCCTCAATGACACCTTGCCTTGGCATGTTCTGCAAGTCTCATCTTATGATCAGTGAGGAGGG
 CGCTGTGGCTACGATCCAGCAGCAACGAGTGCTACTGTGCTTCCCTCTCCAGCCAGGTCCCAAGAAC
 CACGTACGCTGGTTACCAAGGAGAACCAGGTCTTCGTGGTGGAGGCCCTTCTACAACGAAGACAACA
 AAGAGGACCCCATGAGCGCATCTTCTGCAAGTTGACCATCTGGACTCAGAGTGCTGGGATGCCACC
 GCTGCCCTCGCCCCGCTGCCTCTTTGGCTGGGAGAAGCTCTCAACTCCATCTACGTGGTGGTGGCAGA
 GAGATCAAGGACGGCGAGCGCTGCCTGGACTCGGTGATGTGCTACGACAGGCTGTCATTCAATGGGGTG
 AATCGGACCCGCTGCCTTACGTGGTGTATGGCCACACAGTGCTCTCCACATGGACCTTGTCTACGTAAT
 TGGCGGCAAGGAGTGCAGGAAGTGCCTGAACAAGTGTGCTCTATGACCCCAAGAAGTTTGTAGTGG
 AAGGAGCTGGCACCCATGCAGACCGCCGCTCACTTTGGGGCCACTGTCCATGATGGCCGATTATCG
 TGGCAGCTGGGGTACCAGACACAGGGCTGACAGTTCTGCCGAAGTGTACAGCATCACAGACAACAAGT
 GGCACCTTTCAGAGCCTTCCACAGGAGCGTAGCTCACTCAGCCTGGTCAGCCTGGTGGGTACCCTCTAT
 GCCATTGGTGGCTTGGCACACTGGAGACGGAGTCTGGAGAGCTGGTTCCACAGAGCTCAATGACATCT
 GGAGGTATAACGAGGAGGAGAAGAAATGGGAGGGTGTCTGCGGGAGATCGCCTATGCAGCAGGTGCCAC
 CTTCCTACCAAGTGGCGCTCAATGTGCTGTGCTGACTAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213832 representing NM_152393
 Red=Cloning site Green=Tags(s)

MALGLEQAEQRLYQQTLLQDGLKDMLDHGKFLDCVVRAGEREFPCRLVLAACSPYFRARFLAEPERAG
 ELHLEEVSPPDVAQVLHYLYTSEIALDEASVQDLFAAAHRFQIPSIFTICVSFLQKRLCLSNCLAVFRLG
 LLLDCARLAVAARDFICAHFTLVARDADFLGLSADELIAIISSDGLNVEKEEAVFEAVMRWAGSGDAEAQ
 AERQRALPTVFESVRCRLPRAFLESVERHPLVRAQPELLRKVMKDAHEGRITTLRKKKKKGKGAGA
 KEADKGTSAKAEDEEAERILPGILNDTLRFGMFLQDLIFMISEEGAVAYDPAANECYCASLSSQVPMK
 HVSLVTKENQVFVAGGLFYNEEDNKEDPMSAYFLQFDHLDSEWLGMPPLPSRCLFGLGEALNSIYVVGGR
 EIKDGERCLDSVMCYDRLSFKWGESDPLPYVVGHTVLSHMDLVYVIGGKGS DRKCLNKMVCYDPPKFEW
 KELAPMTARSLFGATVHDGRIIVAAGVDTGLTSSAEVYSITDNKWAPFEAFQERSLSLVS LVGLTY
 ATGGFATLETESGELVPTELNDIWRYNEEKKWEGVLREIAYAAGATFLPVRLNVLCLTKM

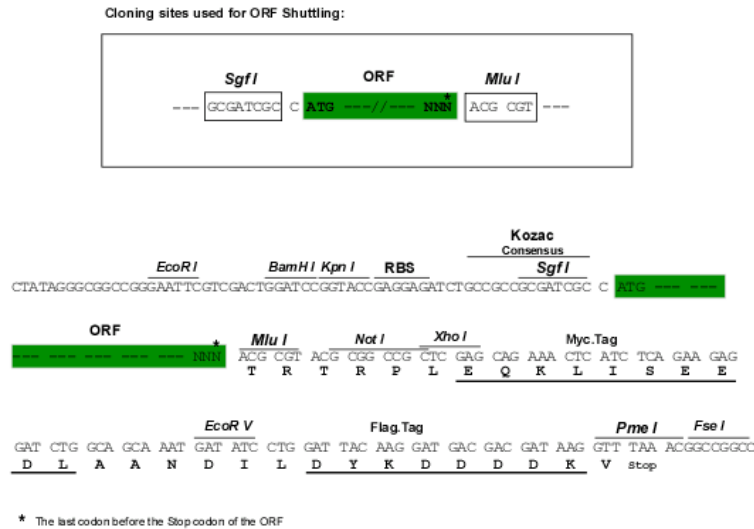
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2697_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152393

ORF Size: 1863 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152393.4](#)

RefSeq Size: 2423 bp

RefSeq ORF: 1866 bp

Locus ID: 131377

UniProt ID: [Q2TBA0](#)

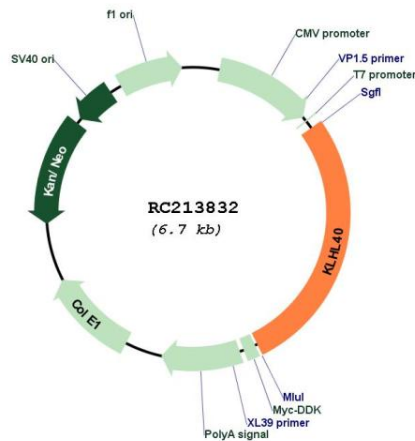
Cytogenetics: 3p22.1

Domains: BTB, Kelch

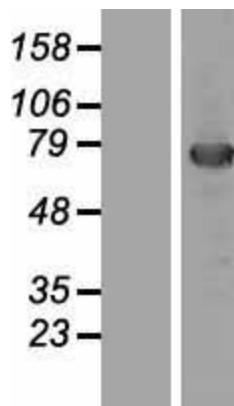
MW: 69.1 kDa

Gene Summary: This gene encodes a protein containing a BACK domain, a BTB/POZ domain, and 5 Kelch repeats, however, its exact function is not known. The gene and the multi-domain protein structure are conserved across different taxa, including primates, rodents, chicken and zebrafish. [provided by RefSeq, Dec 2012]

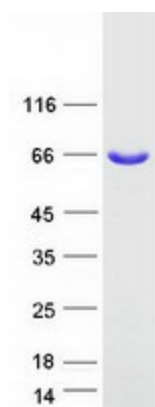
Product images:



Circular map for RC213832



Western blot validation of overexpression lysate (Cat# [LY407561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213832 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KLHL40 protein (Cat# [TP313832]). The protein was produced from HEK293T cells transfected with KLHL40 cDNA clone (Cat# RC213832) using MegaTran 2.0 (Cat# [TT210002]).