

Product datasheet for **RG213832**

KBTBD5 (KLHL40) (NM_152393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KBTBD5 (KLHL40) (NM_152393) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KBTBD5
Synonyms:	KBTBD5; NEM8; SRYP; SYRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213832 representing NM_152393
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGCTGGGCTTGGAGCAGGCGGAGGAGCAGCGTTGTACCAGCAGACGCTCCTGCAAGACGGGCTCA
 AAGACATGCTGGACCATGGCAAGTTCCTCGACTGTGTGGTGGGGCGGGGAGCGCGAGTTCCTCGTCCCA
 TCGCCTGGTGTGGCGCCTGCAGCCCCACTTCCGGGCGCGCTTTCTAGCCGAGCCGAGCGCGCGGGC
 GAGCTGCACCTGGAGGAGGTGTCCCGGACGTGGTGGCCAGGTGCTGCACTACCTGTACACATCAGAGA
 TCGCGCTGGATGAGGCGAGCGTGCAGGATTTGTCGCCGCGGCACACCGCTTCAGATCCCTTCCATCTT
 CACCATCTGCGTGTCTTCTGCAAGCGCCTGTGCCTCTCAACTGCTTGGCCGTCTTCGCTCTCGGC
 CTCCTGCTCGACTGCGCGCTCTCGCCGTGGTGGCCGCACTTCATCTGCGCTCACTTCACGCTGGTGG
 CGCGCAGCGTGACTTCTCGGACTCTCGGCCGACGAGCTCATCGCCATCATCTCCAGCGACGGCCTTAA
 CGTGGAGAAGGAGGAGGAGTGTTCGAGGCGGTGATGCGGTGGGCGGGTAGCGGCGACGCCGAGGCGCAG
 GCTGAGCGCCAGCGCGCTGCCACCGCTTCGAGAGCGTGCGTGCCGCTTGCTGCCGCGCGCCTTTC
 TGGAAAGCCGCTGGAGCGCCACCCTCTCGTGCCTGCCAGCCGAGTTGCTGCGCAAGGTGCAGATGGT
 GAAGGATGCACACGAGGGCCGCATCACCACGCTGCGGAAGAAAAAGAGGGAAGGATGGAGCCGGGGCC
 AAGGAGGCTGATAAGGGCACAAGCAAAGCCAAAGCAGAGGAGGATGAGGAGGCCGAACGTATCCTTCCTG
 GGATCCTCAATGACACCTGCGCTTCGGCATGTTCTGCAAGATCTCATCTTCATGATCAGTGAGGAGGG
 CGCTGTGGCTACGATCCAGCAGCAACGAGTGCTACTGTGCTTCCCTCTCCAGCCAGGTCCCAAGAAC
 CACGTGAGCCTGGTTACCAAGGAGAACCAGGTCTTCGTGGCTGGAGGCCCTTCTACAACGAAGACAACA
 AAGAGGACCCCATGAGCGCATACTTCTGCAAGTTGACCATCTGGACTCAGAGTGCGTGGGATGCCACC
 GCTGCCCTCGCCCCGCTGCCTCTTTGGCCTGGGAGAAAGCTCTCAACTCCATCTACGTGGTGGTGCGAGA
 GAGATCAAGGACGGCGAGCGCTGCCTGGACTCGGTGATGTGCTACGACAGGCTGTCATTCAAATGGGGTG
 AATCGGACCCGCTGCCTTACGTGGTGTATGGCCACACAGTGCTCTCCACATGGACCTTGTCTACGTAAT
 TGGCGGCAAAGGCAGTGACAGGAAGTGCTGAACAAGATGTGCGTCTATGACCCCAAGAAGTTTGAGTGG
 AAGGAGCTGGCACCCTGACAGACCGCCCGCTCACTTTGGGGCCACTGTCCATGATGGCCGATTATCG
 TGGCAGCTGGGGTCAACGACACAGGGCTGACAGTTCTGCCGAAGGTACAGCATCACAGACAACAAGTG
 GGCACCCTTCAGAGCCTTCCACAGGAGCGTAGCTCACTCAGCCTGGTCAGCCTGGTGGGTACCCTCTAT
 GCCATTGGTGGCTTGGCACACTGGAGACGGAGTCTGGAGAGCTGTTCCACAGAGCTCAATGACATCT
 GGAGGTATAACGAGGAGGAGAAGAAATGGGAGGGTGCTCTGCGGAGATCGCCTATGCAGCAGGTGCCAC
 CTTCCTACCAAGTGGCGCTCAATGTGCTGCGCCTGACTAAGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG213832 representing NM_152393
 Red=Cloning site Green=Tags(s)

MALGLEQAEERLYQQTLLQDGLKDMLDHGKFLDCVVRAGEREFPCRLVLAACSPYFRARFLAEPERAG
 ELHLEEVSQDVVAQVLHYLYTSEIALDEASVQDLFAAAHRFQIPSIPTICVSFLQKRLCLSNCLAVFRLG
 LLLDCARLAVAARDFICAHFTLVARDADFLGLSADELIATISSDGLNVEKEEAVFEAVMRWAGSGDAEAQ
 AERQRALPTVFESVRCRLPRAFLESRVERHPLVRAQPELLRKVQMVKDAHEGRITTLRKKKKGKDGAGA
 KEADKGTSKAKAEDEEAERILPGILNDTLRFGMFLQDLIFMISEEGAVAYDPAANECYCASLSSQVPMK
 HVSLVTENQVVFAGGLFYNDNKEDPMSAYFLQFDHLDSEWLGMPPLSPRCLFGLGEALNSIYVVGGR
 EIKDGERCLDSVMCYDRLSFKWGESDPLPYVVYGHTVLSHMDLYVYIGKGSDRKCLNKMVCYDPPKFEW
 KELAPMQTARSLFGATVHDGRIIVAAGVTDGLTSSAEVYSITDNKWAPFEAFQERSLSLVSLVGTLY
 AIGGFATLETESGELVPTELNDIWRYNEEEEKKWEGVLREIAYAAGATFLPVRLNLRLTKM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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_152393.2](#), [NP_689606.2](#)

RefSeq Size: 2423 bp

RefSeq ORF: 1866 bp

Locus ID: 131377

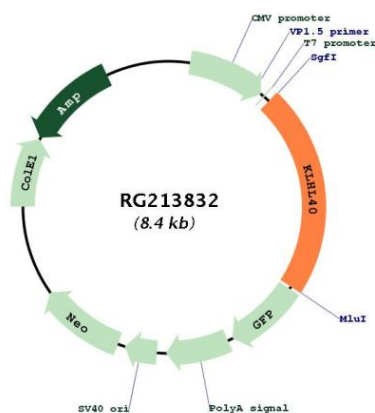
UniProt ID: [Q2TBA0](#)

Cytogenetics: 3p22.1

Domains: BTB, Kelch

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 RG213832