

Product datasheet for **SC100640**

KBTBD6 (NM_152903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KBTBD6 (NM_152903) Human Untagged Clone
Tag:	Tag Free
Symbol:	KBTBD6
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_152903, the custom clone sequence may differ by one or more nucleotides

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ATGCAGTCCCGGGAAGACGCCCCGCGCTCTCGCCGCTAGCCAGTCCCGTGGTGGGAAGCGGCCAAGA
AGATTCACAAACCCACAGTTTCGGCCTTTTTCACGGGTCAGAGGAATTAAGGACACGGCCATTCTGC
AGCCCTGCTGGCACAGCTCAAGTCCTTCTACGATGCGCGGCTGCTGTGTGATGTGACCATCGAGGTGGT
ACGCCTGGCAGCGGGCTGGCACGGGTGCGCTGTTCCCTGCAACCGCAATGTGCTGGCCGCGGCATGTC
CCTACTTCAAGAGCATGTTACAGGTGGCATGTACGAGAGCCAGCAGGCCAGCGTGACCATGCACGATGT
GGACGCCGAGTCTTCGAGGTGTTGGTCGACTACTGCTACACGGGTCGTGTCTCTCAGTGAGGCCAAC
GTGGAGCGCTGTACGCGGCTCCGACATGCTACAGCTGGAATATGTGCGGGAAGCCTGTGCCTCCTTCT
TAGCCCGACGTCTTGACCTGACCAACTGCACCGCCATCCTCAAGTTTGCAGATGCCTTTGGCCATCGCAA
GCTGCGATCCCAGGCCAGTCTATATAGCTCAGAACTCAAGCAACTCAGCCACATGGTTCAATTCCG
GAGGAGACTCTAGCAGATCTGACCTGGCCAGCTGCTGGCTGCTCCTGCGCTTGGATAGTCTGGACGTGG
AGAGTGAGCAGACAGTGTCCATGTGGCAGTGCAGTGGCTGGAGGCTGCTCCAAAGAGCGGGTCCCAG
TGCTGCAGAAGTCTTCAAGTGCCTGCGCTGGATGCACTTCACTGAAGAAGATCAGGACTACTTAGAAGGG
CTGCTGACCAAGCCCATCGTGAAGAAGTACTGCCTGGACGTTATTGAAGGGGCCCTGCAGATGCGCTATG
GTGACCTGTTGTACAAGTCTCTGGTGCCAGTGCCAAACAGCAGCAGCAGTAGCAGCAGCAACTCTCT
TGTATCTGCAGCAGAAAATCCACCCAGAGACTGGGTATGTGTGCCAAGGAGATGGTGATCTTCTTTGGA
CACCCAGAGATCCCTTTCTCTGCTGTGATCCATACTCGGGGACCTTACAAGTGCCGTCACCTTTGA
CCTGTCTGGCTCACACTAGGACTGTCAACTCTAGCTGTCTGTATCTCTCCTGACCATGACATCTATCT
AGCTGCTCAGCCAGGACAGACCTCTGGGTGTATAAACAGCTCAGAATAGTTGGCAGCAACTTGCAGAT
CGTTGTGTGTCGTGAGGGCATGGATGTGGCATATCTCAATGGCTATATCTACATTTTGGGGGGCGAG
ACCCTATTACTGGAGTTAAGTTGAAGGAAGTGAATGCTACAATGTTAAGAGAAAACAGTGGGCATTGGT
GGCTCCACTGCCCATCTTTTTTATCCTTTGACCTAATGGTAATTCGAGACTATCTCTATGCTCTCAAC
AGTAAGCGCATGTTCTGTTATGATCCTAGCCACAATATGTGGCTGAAGTGCCTTCTCTGAAGCGCAATG
ACTTTCAGGAAGCCTGCGTCTTCAATGAGGAGATCTATTGTATCTGTGATATCCCAGTCATGAAGGTCTA
CAACCCAGTTAGGGCAGAATGGAGGCAATGAATAATATCCCTTGGTCTCAGAGACCAACAACACAGA
ATTATCAAGCATGGCCAAAAATGTTGCTCATCACCTCTCGACCCACAGTGGAAAAAGAACCGGGTGA
CTGTGTATGAATATGATATTAGGGGAGACCAATGGATTAATATAGGTACCACATTAGGCCTCTTGACGTT
TGATTCTAACTTTTTTGCCTCTCTGCTCGTGTATCCTTCTGCTTGAACCTGGTCAGAGTTTCTCT
ACTGAAGAAGAAGAAATACCAAGTGAGTCTAGCACTGAATGGGACTTAGGTGGATTGAGTGGCCAGACT
CTGAGTCAGGAAGTCAAGTTCTTTTCTGATGATGATTTTTGGGTGCGTGTAGCGCCTCAGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152903 unedited

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NNGGGTCGGTCCAGATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGAAA
CGGCCATTCTGCAGCCCTGCTGGCACAGCTCAAGTCCTTCTACGATGCGCGGCTGCTGT
GTGATGTGACCATCGAGGTGGTACGCCTGGCAGCGGGCTGGCACGGGTGCGCTGTTC
CCTGCAACCGCAATGTGCTGGCCGCGCATGTCCTACTTCAAGAGCATGTTACAGGTG
GCATGTACGAGAGCCAGCAGGCCAGCGTGACCATGCACGATGTGGACGCCGAGTCTTCG
AGGTGTTGGTCGACTACTGCTACACGGGTCGTGTGTCTCTCAGTGAGGCCAACGTGGAGC
GCCTGTACGCGGCTCCGACATGCTACAGCTGGAATATGTGCGGGAAGCCTGTGCCTCCT
TCTTAGCCCGACGCTTGACCTGACCAACTGCACCGCCATCCTCAAGTTTGCAGATGCCT
TTGGCCATCGCAAGTGCATCCAGGCCAGTCTATATAGCTCAGAACTTCAAGCAAC
TCAGCCACATGGGTTCAATTCGGGAGGAGACTTAGCAGATCTGACCCTGGCCAGCTGC
TGGCTGTCTGCGCTTGGATAGTCTGGACGTGGAGAGTGGAGCAGAGTGTGCCATGTGG
CAGTGCAAGTGGCTGGAGGCTGCTCCAAAGAGCGGNGTCCCAGTGTGCAAGAAGTCTTCA
AGTGCCTGCGCTGGATGCACTTCACTGAAGAAGATCAGGACTACTTAGAAGGGCTGCTGA
CCAAGCCCATCGTGAAGAAGTACTGCCTGNACGTTATTGAAGGGGCCCTGCAGATGCGCT
ATGGTGACCCTGTGTACAAGTCTCTGGC
    
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Restriction Sites:

NotI-NotI

ACCN:	NM_152903
Insert Size:	2000 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).
RefSeq:	<u>NM_152903.4</u> , <u>NP_690867.3</u>
RefSeq Size:	5228 bp
RefSeq ORF:	2025 bp
Locus ID:	89890
UniProt ID:	<u>Q86V97</u>
Domains:	BTB, Kelch
Gene Summary:	As part of the CUL3(KBTBD6/7) E3 ubiquitin ligase complex functions as a substrate adapter for the RAC1 guanine exchange factor (GEF) TIAM1, mediating its 'Lys-48' ubiquitination and proteasomal degradation (PubMed:25684205). By controlling this ubiquitination, regulates RAC1 signal transduction and downstream biological processes including the organization of the cytoskeleton, cell migration and cell proliferation (PubMed:25684205). Ubiquitination of TIAM1 requires the membrane-associated protein GABARAP which may restrict locally the activity of the complex (PubMed:25684205).[UniProtKB/Swiss-Prot Function]