

Product datasheet for **SC100338**

KCTD6 (NM_153331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCTD6 (NM_153331) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCTD6
Synonyms:	KCASH3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100338 sequence for NM_153331 edited (data generated by NextGen Sequencing)

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ATGGATAATGGAGACTGGGGCTATATGATGACTGACCCAGTCACATTAATGTAGGTGGA
CACTTGTATACAACGTCTCTCACCACATTGACGCGTTACCCGGATTCCATGCTTGGAGCT
ATGTTTGGGGGGGACTTCCCCACAGCTCGAGACCCTCAAGGCAATTACTTTATTGATCGA
GATGGACCTCTTTTCCGATATGCCTCAACTTCTTAAGAATTTCAGAATTGACCTTACCG
TTGGATTTTAAGGAATTTGATCTGCTTCGGAAAGAAGCAGATTTTACCAGATTGAGCCC
TTGATTCAGTGTCTCAATGATCCTAAGCCTTTGTATCCCATGGATACTTTGAAGAAGTT
GTGGAGCTGTCTAGTACTCGGAAGCTTTCTAAGTACTCCAACCCAGTGGCTGTCATATA
ACGCAACTAACCATCACCCTAAGGTCCATTCTTACTAGAAGGCATCTCAAATTATTTT
ACCAAGTGAATAAGCACATGATGGACACCAGAGACTGCCAGTTTCCTTTACTTTTGGG
CCCTGTGATTATCACCAGGAAGTTTCTCTTAGGGTCCACCTGATGGAATACATTACAAAA
CAAGGTTTACGATCCGCAACACCCGGGTGCATCACATGAGTGAGCGGGCCAATGAAAAAC
ACAGTGGAGCACAACTGGACTTTCTGTAGGCTAGCCCGGAAGACAGACGACTGA
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Clone variation with respect to NM_153331.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153331 unedited
 TTTGTAATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCTCCGGCCGCGGGC
 ATCTCCCGGCCCGGCCGAGCAGCCGCCCGCCGCGCATTTCCCTGAAACCTGGGCTCT
 TGAAGACGCATCACTGGAGCAGATGGATAATGGAGACTGGGGCTATATGATGACTGACCC
 AGTCACATTAATGTAGGTGGACACTTGTATACAACGTCTCTACCACATTGACGCGTTA
 CCCGATTCCATGCTTGGAGCTATGTTTGGGGGGGACTCCCCACAGCTCGAGACCCTCA
 AGGCAATTACTTTATTGATCGAGATGGACCTCTTTCCGATATGCCTCAACTTCTTAAG
 AACTTCAGAATTGACCTTACCGTTGGATTTAAGGAATTTGATCTGCTTCGGAAAAGAAGC
 AGATTTTTACCAGATTGAGCCCTTGATTCAAGTGTCTCAATGATCCTAAGCCTTTGTATCC
 CATGGATACTTTTGAAGAAGTTGTGGAGCTGTCTAGTACTCGGAAGCTTTCTAAGTACTC
 CAACCCAGTGGCTGTCATCATAACGCAACTAACCATCACCCTAAGGTCCATTCTTACT
 AGAAGGCATCTCANATTATTTACCAAGTGAATAAGCACATGATGGACACCAGAGACTG
 CCNAGTTTCTTTACTTTTGGACCCTGTGATTATCACCAGGAAGTTTCNTCTTAGGGTCC
 ACCTGATGGAATACATTACAAAACAAGGNTTCACGATCCGCAACACCCGGGTGCATCACA
 TGAGTGAGCGGGCAATGAAACACAGTGGAGCACAACCTGGACTTTTCTGTAGCTAGCCCG
 NAAGACGACGACTGATCTNCGACCCTGCCACAGTTCTCGAAAGACTCTCAGAATGGAAG
 AACTGATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_153331 unedited
 NNAAATTACTGNACCGCCGCGCATTCTANNGATCGGTTTTTTTTTTTTTTTTTTTTAATTT
 TCATATTTCATTTTTATTAGTTTTGTTTTTTTTTCTGGTAGACAGTACACTTGGGAAT
 TATACTGCACCAGGCATAAAGAGTAAGTTTTCTACCACAGGGACATTTTGTATTCAGAAT
 TCAATATAAATATTTCTAGTCAGACATTTCCATGGCTACAGATATTTGGTTCCTTGATTT
 ATATGCATAGAAAAGAACAGTTGTCATAACTGTAAAAAGCAGTACTTAATAAGTACTTTT
 AAATGATTGGAACAGTTTTCTTTAATATTACAATACTACTTATTTATTGGTTTGAAAC
 TAGGTCACCCTACATGATGTTTTGATTTTTCTCAAAGGCATCATGAGTACTCTGCTTATT
 CTTTCATTCTTGATTTTTAGCCTTCTAGTTGAGTTAGGGACCATTTTATCAGAAATCAT
 TTTAGCACTGTAATAAGAAAAGCTCTGTTAAGGGTAGATTATATACCATAATGATTTTCA
 GACTTCTTTTTATAAAAAAGGTATCTGGAGACTCTGAACAGGCACATGCATACTCAGGGG
 GAAGGGAACAAAACATGGAGGAGTCTGCCAAAGCACAAAACCTTCTTCTGGTCTCACTG
 CCTTCAAATAAATAACAATATTTAAAAGAAAAAATATCTCACACTGTGATTTAAAAAA
 AAAAAATCAGTATCTTCCATTTCCCTGGAGAGTCTTCCAGGAACCTGTGGCAGGGTCCGAG
 ATCAGTCTGTCTTCCGGGCTAGCCTACAGAAAGTCCAGTTGTGCTCCACTGTGTTTT
 CATTGGCCGCTCACTCATGTGATGCACCCGGGTGTTGCGGATCGTGAAACCTTGTTTT
 GTATGTATTCCATCAGGTGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_153331

Insert Size:

1700 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:	NM_153331.2 , NP_699162.2
RefSeq Size:	1823 bp
RefSeq ORF:	714 bp
Locus ID:	200845
UniProt ID:	Q8NC69
Cytogenetics:	3p14.3
Domains:	BTB, K_tetra
Protein Families:	Ion Channels: Other
Gene Summary:	<p>Probable substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex mediating the ubiquitination and subsequent proteasomal degradation of target proteins. Promotes the ubiquitination of HDAC1; the function seems to depend on KCTD11:KCTD6 oligomerization. Can function as antagonist of the Hedgehog pathway by affecting the nuclear transfer of transcription factor GLI1; the function probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. Inhibits cell growth and tumorigenicity of medulloblastoma (MDB) (PubMed:21472142). Involved in regulating protein levels of ANK1 isoform Mu17 probably implicating CUL3-dependent proteasomal degradation (PubMed:22573887).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>