

Product datasheet for **SC302444**

KCTD21 (NM_001029859) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCTD21 (NM_001029859) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCTD21
Synonyms:	KCASH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302444 representing NM_001029859. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
 ATGTCCGACCCCATCACGCTGAACGTCGGGGGAAGCTCTATACAACCTCACTGGCGACCCTGACCAGC
 TTCCCTGACTCCATGCTAGGCGCCATGTTCCAGCGGAAGATGCCACCAAGAGGGACAGCCAGGGCAAC
 TGCTTCATTGACCGTGACGGCAAAGTGTCCGCTATATCCTCACTTCTGCGGACCTCCACCTTGAC
 CTGCCTGAGGACTTCCAGGAGATGGGGCTGCTCCGAGGGAGGCCGACTTCTACCAGGTGCAGCCCTG
 ATTGAGGCCCTGCAGGAGAAGGAAGTGGAGCTCTCCAAGGCCGAGAAGAATGCCATGCTCAACATCACA
 CTGAACCAGCGTGTGCAGACGGTCCACTTCACTGTGCGGAGGCACCCAGATCTACAGCCTCTCCTCT
 TCCAGCATGGAGGTCTTCAACGCCAACATCTTCAGCACCTCCTGCCTCTTCTCAAGCTCCTTGGCTCT
 AAGCTCTTCTACTGCTCCAATGGCAATCTCCTCCATACCAGCCACTTGCAGGACCCCAACCCTG
 ACTCTGGACTGGGTGGCCAATGTGGAGGGCCTGCCAGAGGAGGAGTACACCAAGCAGAACCTCAAGAGG
 CTCTGGGTGGTGGCCGCAACAAGCAGATCAACAGCTTCCAGGTCTTCGTGGAAGAGGTACTGAAATC
 GCTCTGAGCGATGGCTTCTGCATCGATTCTTCTACCCACATGCTCTGGATTTTATGAACAATAAGATT
 ATTCGATTAATACGGTACAGG**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001029859
Insert Size:	783 bp


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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001029859.2</u>
RefSeq Size:	3397 bp
RefSeq ORF:	783 bp
Locus ID:	283219
UniProt ID:	<u>Q4G0X4</u>
Cytogenetics:	11q14.1
MW:	29.6 kDa
Gene Summary:	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. 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).[UniProtKB/Swiss-Prot Function]