

Product datasheet for **SC121957**

KCTD11 (NM_001002914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCTD11 (NM_001002914) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCTD11
Synonyms:	C17orf36; KCASH1; REN; REN/KCTD11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121957 sequence for NM_001002914 edited (data generated by NextGen Sequencing)

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ATGCTGGGGGCCATGTTTAGGGCCGGCACCCCCATGCCCCAACCTCAATTCCAAGGA
GGCGGCCACTACTTCATCGACCGGGATGGCAAGGCCTTCCGGCACATCCTCAATTCCTG
AGGCTGGGCCGCTGGACCTGCCCGTGGGTACGGAGAGACAGCGCTGCTCAGGGCAGAG
GCTGACTTCTACCAGATCCGGCCCTCCTGGATGCGCTGCGGAACTGGAGGCCTCTCAG
GGGACCCCTGCACCCACAGCTGCCCTGCTCCACGCAGATGTAGATGTCAGCCCCCGCTG
GTGCACTTCTGCTCGCCGGGGACCCCATCACTATGAGCTGAGCTCCGTCCAGGTGGAC
ACCTTCGAGCCAACCTTTTCTGCACCGACTCTGAGTGTCTAGGTGCTTTCGGGGCCGA
TTTGGTGTGCCAGTGGGATAGGGCAGAGGGGAGCCACATTTTCATCTGGAGTGGCC
CCCCGCCCGTGGAACTCCCCGAGGTGGAGTATGGGAGACTGGGGCTGCAGCCGCTGTGG
ACTGGGGGGCCAGGAGAGCGGGGAGGTGGTGGGCACCCCAAGCTTCTGGAGGAGGTG
CTGCGGGTGGCTCTCGAGCACGGCTTCCGACTAGACTCTGTCTTCCCCGACCCCGAAGAC
CTGCTCAACTCCAGGTCTCTGCGCTTTGTCCGGCACTGA
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Clone variation with respect to NM_001002914.2
213 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001002914 unedited
 CCCCCATTCCCCCGCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT
 ATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGACGCG
 GCCGGAATTCGGCACGAGGGTCTCTTAAAGGGCCCCGGGCCGCTGCCCTTAGGCCACTT
 CCTGGGGGCGGAGAGGACCTCAGCGGCTGCGGCGACACCCAGGGAAGGCGGCGCGGCCG
 GTCCCCAAACTCCTGGCTGTTTCCATCAGAGCCCTCGGACACTCCAGCCCGGGTGAGC
 ACGCATCGTCGCTCCCCGGCGGATACAAGGGGGCTCCGCCATCCGCTCCGTCAGTTCGG
 CCTCCATCTCCTGGGACCCGCGCCGCGCAGCCAGGCCAGGCCTCTGAGTGGCCCCAGAGCC
 CTGGCTGGACTCGTCCACGGCGGACGATCTGCCGGGGTCTCGGAGGCCATCCCTTCA
 GAGTCGGCCCTGTGCTCGCCACCGTCACCTGCTGGTTGGATTCCGGAAACCCACTGTCTG
 AAGACCACAGAGGGGTGTCGCTGACCACCCAAATCGGATACGTCCAGACCTCAAGCTCC
 CTTCCCTCTCTGGTGCCTCTGCTCTTTTCATCTTCTCTCAACCTTTTGGGGATT
 CTGTGCTGACACCACCTCCCATCCACCACAAAGTAGCCGGGGGTGAGCCCCAAACC
 TTAAGGNGTGTGCTCCACCTGTGCTCCAACCCAGCGAATCTGACAGCTTCGACCCAAT
 TCTGCCACACCCAGAAAGTTTGCCTTTTCTTTTCTTTTCGGNGNCTCCTGTACTTCCC
 AAAATTCTCCTCCTGTGCCCTTTCGCCCCCTCTATTGGGGCCCCGTGACCCTGCA
 TGTGGGGGGCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001002914 unedited
 NNNCCGTTCTACTATGNACGCGGCCGATTCTAGNGATCGGTTTTTTTTTTTTTTTTTTT
 TGGTTCCAAAAGCAGTTTTATTTTTCTTGTAAATCATGACCAGTGAGAAATAATGTG
 TGCCCCACCCCCACCAGTGAAGAAGCTGTGCGTGAGTATCCCACCCGCTCTGGGACCCA
 GAAATCCCATCCCTTCCCATCTCTCCCCACTGTCCAAACTCTTCGTCTCCTCTCTCT
 GCCTGGGCGGGCTTGGGCCTTCCCAGCTATCTCCTAGCAACAGGTCCATGGTTGCCTC
 AGCAACCAAGAGTTCCATACAGGCTCAGAGGCCAGCTAAGCCAGTGACTTCTCTTAC
 CTCTACCAGGAAGATCCAGTGACTCAAACCCCAACAGGCCCTCCTGGCTACGTGGTG
 ATGCATATACATGCGTGACATAAACACACACACACACACACACACACACACACACACC
 TGTGATTAAACTACTAATTGTCAACCACCTCACAGGTATACCACAGACACACCCTGTGCC
 AAAAGAGTCGCTTGGGAACCCCAACAGGCCTGGACATGCGGACATCACAGACCCTGTGG
 TCAGCAACACAGATATGAACCCGGGTGCCCGGGCCTATTTCATCATTACGCTCACGGGG
 TGGTTTTCCCGCGCACCTGGAAAAAGGGCCGACCCCAAGATACTACCTTTTTCCCTGG
 GCAACCTGGCCATAGTTGGGAATTTTTCCAGAGAAGGGAGGTTCCAACCCCTTGGCATGG
 GGACTGGCCAACCTCCCTTAATAAACCAAGGGGGGGGGGGGCTTTTGCCCCCCCAGGGA
 GGGTGGGGAAAATA

Restriction Sites:

NotI-NotI

ACCN:

NM_001002914

Insert Size:

3000 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:	<u>NM_001002914.1, NP_001002914.1</u>
RefSeq Size:	2780 bp
RefSeq ORF:	699 bp
Locus ID:	147040
UniProt ID:	<u>Q693B1</u>
Cytogenetics:	17p13.1
Protein Families:	Ion Channels: Other
Gene Summary:	Plays a role as a marker and a regulator of neuronal differentiation; Up-regulated by a variety of neurogenic signals, such as retinoic acid, epidermal growth factor/EGF and NGFB/nerve growth factor. Induces apoptosis, growth arrest and the expression of cyclin-dependent kinase inhibitor CDKN1B. Plays a role as a tumor repressor and inhibits cell growth and tumorigenicity of medulloblastoma (MDB). Acts as probable substrate-specific adapter for a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex towards HDAC1. Functions as antagonist of the Hedgehog pathway on cell proliferation and differentiation by affecting the nuclear transfer of transcription factor GLI1, thus maintaining cerebellar granule cells in undifferentiated state, this effect probably occurs via HDAC1 down-regulation, keeping GLI1 acetylated and inactive. When knock-down, Hedgehog antagonism is impaired and proliferation of granule cells is sustained. Activates the caspase cascade.[UniProtKB/Swiss-Prot Function]