

Product datasheet for **SC322912**

KCTD6 (NM_001128214) Human Untagged Clone

Product data:

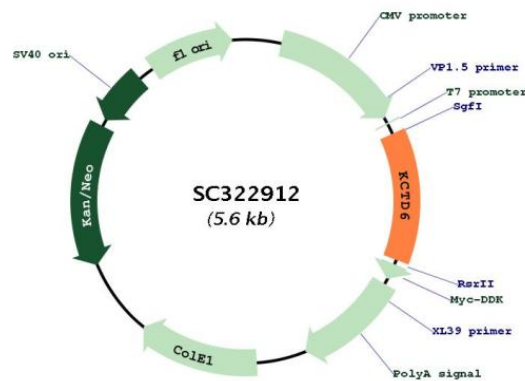
Product Type:	Expression Plasmids
Product Name:	KCTD6 (NM_001128214) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCTD6
Synonyms:	KCASH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322912 representing NM_001128214. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATAATGGAGACTGGGGCTATATGATGACTGACCCAGTCACATTAATGTAGGTGGACACTTGTAT
ACAACGCTCTCACCACATTGACGCGTTACCCGGATTCCATGCTTGGAGCTATGTTGGGGGGACTTC
CCCACAGCTCGAGACCCTCAAGGCAATTACTTTATTGATCGAGATGGACCTCTTTCCGATATGCCTC
AACTTCTAAGAAGTTCAGAATTGACCTTACCGTTGGATTTAAGGAATTTGATCTGCTTCGAAAGAA
GCAGATTTTACCAGATTGAGCCCTTGATTCAGTGTCTCAATGATCCTAAGCCTTTGATCCCATGGAT
ACTTTTGAAGAAGTTGTGGAGCTGTCTAGTACTCGGAAGCTTTCTAAGTACTCCAACCCAGTGGCTGTC
ATCATAACGCAACTAACCATCACCCTAAGGTCCATTCCTTACTAGAAGGCATCTCAAATATTTTACC
AAGTGAATAAGCACATGATGGACACCAGAGACTGCCAGGTTTCCTTTACTTTTGGACCCTGTGATTAT
CACCAGGAAGTTTCTTAGGGTCCACCTGATGGAATACATTACAAAACAAGTTTCACGATCCGCAAC
ACCCGGGTGCATCACATGAGTGAGCGGGCAATGAAAACACAGTGGAGCACAACCTGGACTTCTGTAGG
CTAGCCCGGAAGACAGACGACTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: Sgfl-RsrII



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Plasmid Map:


ACCN: NM_001128214

Insert Size: 714 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).

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: [NM_001128214.1](#)

RefSeq Size: 1566 bp

RefSeq ORF: 714 bp

Locus ID: 200845

UniProt ID: [Q8NC69](#)

Cytogenetics: 3p14.3

Protein Families: Ion Channels: Other

MW: 27.6 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; 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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.