

Product datasheet for **SC317438**

KCTD17 (NM_024681) Human Untagged Clone

Product data:

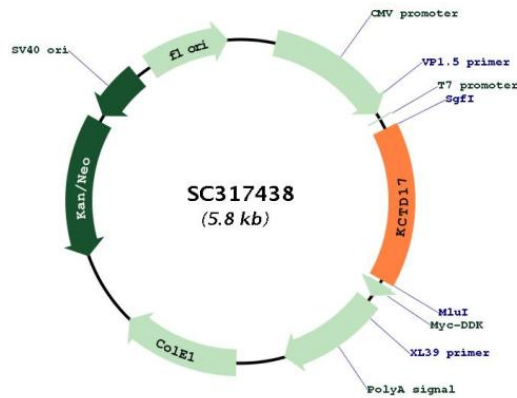
Product Type: Expression Plasmids
Product Name: KCTD17 (NM_024681) Human Untagged Clone
Tag: Tag Free
Symbol: KCTD17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC317438 representing NM_024681.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGACGCCGCGCGCCGGCGATGAGGATGGAGGCCGGGGAGGCAGCGCCGCCGGCGGGGGCGGGCGGC
CGCGCCGCAGGCGGCTGGGGCAAGTGGGTGCGGCTCAACGTGGGGGGCACGGTGTTCCTGACCACCCGG
CAGACGCTGTGCCGCGAGCAGAAGTCCTTCCTCAGCCGCTGTGCCAGGGGAAGAGCTGCAGTCGGAC
CGGGATGAGACCGGGGCCTACCTCATTGACCGTGACCCCACTACTTCGGGCCCATCCTGAACTTCCTC
CGGCATGGCAAGCTGGTGTGGACAAGGACATGGCTGAGGAGGGGTCTGGAGGAAGCCGAGTTCTAC
AACATCGGCCCGTGATCCGCATCATCAAAGACCGGATGGAAGAGAAGGACTACACGGTCACCCAGGTC
CCACCAAGCACGTGTACCGCGTGCTGCAGTGCCAGGAGGAGGCTCACGAAAATGGTCTCCACCATG
TCTGATGGCTGGCGCTTCGAGCAGCTGGTGAACATCGGCTCCTCCTACAACACGGCAGCGAGGACCAG
GCAGAGTTCCTGTGTGGTGTCCAAGGAGCTCCACAGCACCCCAACGGGCTGAGCTCAGAGTCCAGC
CGCAAAACCAAGAGCACGGAGGAGCAGCTGGAGGAGCAGCAGCAGCAGGAGGAGGAGGTGGAGGAGGTG
GAGGTGGAACAGGTGCAGGTGGAGGCAGATGCACAGGAGAAAGTTCCCGTCCGCACCCCTCAGACCT
GAGGCTGAGCTTGCAGTGAGGGCTTCTCCTCGGCCCTCGCCCGCCCCAGAGCTGCCATCCCTGCTGT
TACAAGCCAGAGGCACCCGGATGTGAGGCCAGATCACCTCCAGGACTTGGGGTCCCATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_024681

Insert Size: 894 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_024681.3](#)

RefSeq Size: 1707 bp

RefSeq ORF: 894 bp

Locus ID: 79734

UniProt ID: [Q8N5Z5](#)

Cytogenetics: 22q12.3

Protein Families: Ion Channels: Other

MW: 33.3 kDa

Gene Summary: This gene encodes a protein that belongs to a conserved family of potassium channel tetramerization domain (KCTD)-containing proteins. The encoded protein functions in ciliogenesis by acting as a substrate adaptor for the cullin3-based ubiquitin-conjugating enzyme E3 ligase, and targets trichoplein, a keratin-binding protein, for degradation via polyubiquitinylation. A mutation in this gene is associated with autosomal dominant myoclonic dystonia 26. [provided by RefSeq, Nov 2016]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 2, which lacks an internal segment and is shorter, compared to isoform 1.