

Product datasheet for **RC236710**

KCTD17 (NM_001282685) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCTD17 (NM_001282685) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KCTD17
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236710 representing NM_001282685
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCAGACGCCGCGCCGGCGATGAGGATGGAGGCCGGGGAGGCAGCGCCGCGCGGGGGCGGGCGGCC
GCGCCGACGCGCGCTGGGGCAAGTGGGTGCGGCTCAACGTGGGGGCACGGTGTCTCTGACCACCGGCA
GACGCTGTGCCGCGAGCAGAAGTCTTCCCTCAGCCGCTGTGCCAGGGGAAGAGCTGCAGTCGGACCGG
GATGAGACCGGGGCTACCTCATTGACCGTGACCCACCTACTTCGGGCCATCCTGAACCTCCTCCGGC
ATGGCAAGCTGGTGTGACAAGGACATGGCTGAGGAGGGGTCTGGAGGAAGCCGAGTCTACAACAT
CGGCCCGCTGATCCGCATCATCAAAGACCGGATGGAAGAGAAGGACTACACGGTCACCCAGGTCCCACCC
AAGCACGTGTACCGCGTGTGAGTCCAGGAGGAGGAGCTCACGAAATGGTCTCCACCATGTCTGATG
GCTGGCGTTCGAGCAGCTGGTGAACATCGGCTCCTCTACAACACGGCAGCGAGGACCAGGCAGAGTT
CCTGTGTGGTGTCCAAGGAGCTCCACAGCACCCAAACGGGCTGAGCTCAGAGTCCAGCCGAAAACC
AAGGTTCCCGTCCGCACCCTCTCAGACCTGAGGCTGAGCTTGACG

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236710 representing NM_001282685
Red=Cloning site Green=Tags(s)

MQTPRPAMRMEAGEAAPPAGAGGRAAGGWGKWRNLNVGGTVFLTTRQTLCREQKSFLSRLCQGEELQSDR
DETGAYLIDRDPTYFGPIILNFLRHGKLVLDKDMAEEGVLEEAEFYNIIGPLIRIIKDRMEEKDYTVTQVPP
KHVYRVLQCCQEELTQMVSTMSDGWRFEQLVNIIGSSYNYGSEDQAEFLCVVSKELHSTPNGLSSESRKT
KVPVRTLSDLRLSLQ

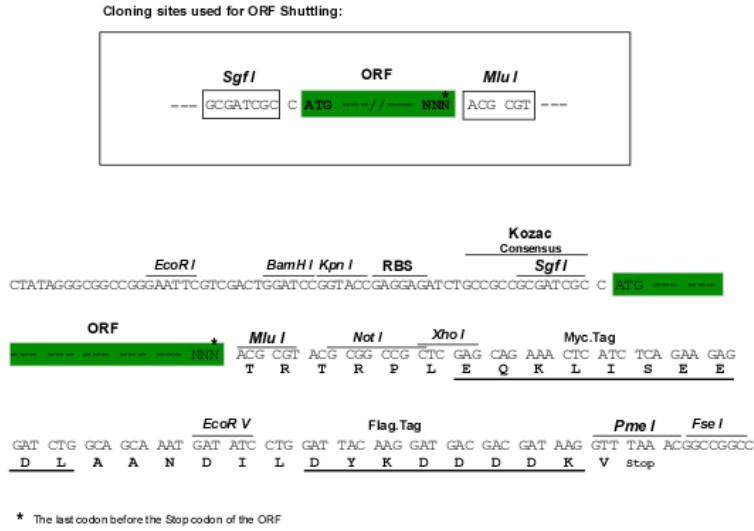
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



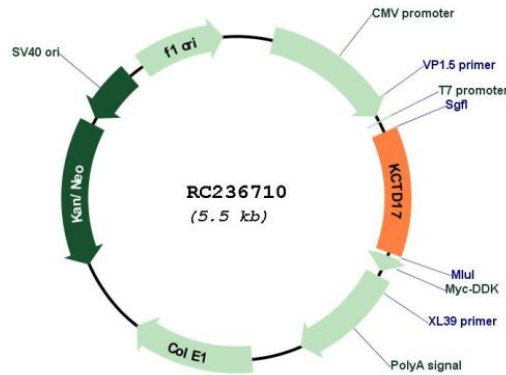
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282685

ORF Size: 675 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

| | |
|-------------------------------|---|
| 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_001282685.1, NP_001269614.1</u> |
| RefSeq Size: | 1607 bp |
| RefSeq ORF: | 657 bp |
| Locus ID: | 79734 |
| UniProt ID: | <u>Q8N5Z5</u> |
| Cytogenetics: | 22q12.3 |
| Protein Families: | Ion Channels: Other |
| MW: | 25.8 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 polyubiquitylation. A mutation in this gene is associated with autosomal dominant myoclonic dystonia 26. [provided by RefSeq, Nov 2016] |