

Product datasheet for **RG229837**

KCTD7 (NM_001167961) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCTD7 (NM_001167961) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCTD7
Synonyms: CLN14; EPM3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229837 representing NM_001167961
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGTAGTCACGGGGCGGGAGCCAGACAGCCGTCGTCAGGACGGTGCCATGTCCAGCTCTGACGCCG
 AAGACGACTTTCTGGAGCCGGCCACGCCAGGCCACGCAGGCGGGGCACGCGCTGCCCTGCTGCCACA
 GGAGTTTCTGAGGTTGTTCCCTTAACATCGGAGGGGCTCACTTCACTACACGCCTGTCCACACTGCGG
 TGCTACGAAGACACCATGTTGGCAGCCATGTTCACTGGGCGGCACTACATCCCCACGGACTCCGAGGGCC
 GGTACTTCATCGACCGAGATGGCACACACTTTGGAGATGTGCTGAATTTCTGCGCTCAGGGGACCTCCC
 ACCCAGGGAGCGTGTTCGAGCTGTGTACAAAGAGGCCAGTACTATGCCATCGGGCCCTCTGGAGCAG
 CTGGAGAACATGCAGCCACTGAAGGGCGAGAAGGTGCGCCAAGCGTTTCTGGGACTCATGCCCTATTACA
 AAGACCACTTGGAGCGGATTGTGGAGATCGCCCGCTGCGTGCGGTCCAGCGGAAGGCCCGCTTTGCCAA
 GCTCAAGGTCTGTCTTCAAGGAGGAGATGCCATCACCCCTATGAGTGTCCGCTCCTCAACTCCCTG
 CGATTTGAGCGGAGTGAGAGTGACGGGCAGCTTTTGGAGCACCCTGTGAAGTGGATGTGTCTTTGGGC
 CCTGGGAGGCTGTGGCTGATGTTATGACCTGCTGCACTGCCTGGTCACGGACCTCTCGGCCAGGGTCT
 CACCGTGGACCACAGTGCATCGGGGTGTGTGACAAGCACCTCGTGAACCACTACTACTGCAAGCGCCCC
 ATCTATGAGTTCAAGATCACATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229837 representing NM_001167961
Red=Cloning site Green=Tags(s)

MVVVTGREPDSRRQDGAMSSSDAEDDFLEPATPTATQAGHALPLLQEFPEVVPLNIGGAHFTTRLSTLR
 CYEDTMLAAMFSGRHYIPTDSEGRYFIDRDGTHFGDVLNFLRSGDLPPRERVRAVYKEAQYYAIGPLLEQ
 LENMQPLKGEKVRQAFGLMPYKDHLEIRIVEIARLRAVQRKARFALKKVCVFKEEMPITPYECPDLLNSL
 RFERSESDGQLFEHHCEVDVSFGPWEAVADVYDLLHCLVTDLSAQGLTVDHQCIGVCDKHLVNHYYCKRP
 IYEFKITW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167961

ORF Size: 864 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:

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_001167961.2](#), [NP_001161433.1](#)

RefSeq Size: 3718 bp

RefSeq ORF: 867 bp

Locus ID: 154881

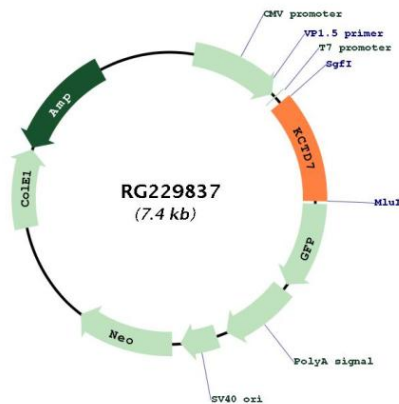
UniProt ID: [Q96MP8](#)

Cytogenetics: 7q11.21

Protein Families: Ion Channels: Other

Gene Summary: This gene encodes a member of the potassium channel tetramerization domain-containing protein family. Family members are identified on a structural basis and contain an amino-terminal domain similar to the T1 domain present in the voltage-gated potassium channel. Mutations in this gene have been associated with progressive myoclonic epilepsy-3. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RG229837