

Product datasheet for **RG219713**

KCTD1 (NM_198991) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KCTD1 (NM_198991) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KCTD1
Synonyms: C18orf5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219713 representing NM_198991
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAGACCTCTGATCACTAGATCCCCTGCATCTCCACTGAACAACCAAGGCATCCCTACTCCAGCAC
AACTCACAAAATCCAATGCACCTGTCCACATTGATGTGGCGGCCACATGTACACCAGCAGCCTGGCCAC
CCTCACAAAATACCCTGAATCCAGAATCGGAAGACTTTTTGATGGTACAGAGCCCATTGTTTTGGACAGT
CTCAAACAGCACTATTTTCATTGACAGAGATGGACAGATGTTGAGATATATCTTGAATTTTCTACGAACAT
CCAAACTCCTCATTCTGATGATTTCAAGGACTACACTTTGTTATATGAAGAGGCAAAAATATTTTCAGCT
TCAGCCCATGTTGTTGGAGATGGAAGATGGAAGCAGGACAGAGAACTGGTCGATTTTCAAGGCCCTGT
GAGTGCCTCGTCGTGCGTGTGGCCCCAGACCTCGGAGAAAGGATCACGCTAAGCGGTGACAAATCCTTGA
TAGAAGAAGTATTTCCAGAGATCGGCGACGTGATGTGTAACCTCTGTCAATGCAGGCTGGAATCACGACTC
GACGCAGTCAATCAGTTTCCACTAAATGGCTACTGTCACCTCAACTCAGTCCAGGTCCTCGAGAGGTTG
CAGCAAAGAGGATTTGAAATCGTGGGCTCCTGTGGGGGAGGAGTAGACTCGTCCCAGTTCAGCGAATACG
TCCTTCGGCGGGAACAGGCGGACGCCCGTGTACCTCCGTCATCCGGATAAAGCAAGAGCCTCTGGA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219713 representing NM_198991
 Red=Cloning site Green=Tags(s)

MSRPLITRSPASPLNNQGIPTPAQLTKSNAPVHIDVGGHMYTSSLATLTKYPESRIGRLFDGTEPIVLDS
 LKQHYFIDRDGQMFRIYILNFLRTSKLLIPDDFKDYTLLEYEAKYFQLQPMLLEMERWKQDRETGRFSRPC
 ECLVVRVAPDLGERITLSGDKSLIEEVFPEIGDVMCNSVNAGWNHDSTHVIRFPLNGYCHLNSVQVLERL
 QQRGFEIVGSCGGVDSSQFSEYVLRRELRRTPRVPSVIRIKQEPLD

TRTRPLE - GFP Tag - V

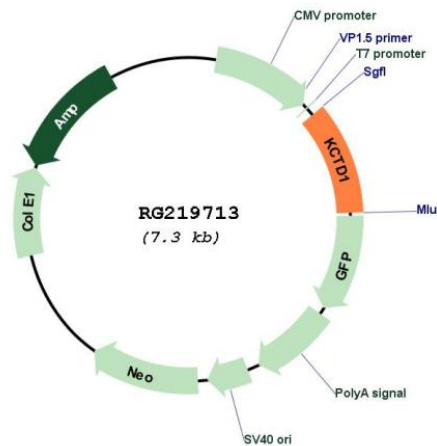
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_198991

ORF Size: 771 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:	NM_198991.1 , NP_945342.1
RefSeq Size:	1757 bp
RefSeq ORF:	774 bp
Locus ID:	284252
UniProt ID:	Q719H9
Cytogenetics:	18q11.2
Protein Families:	Ion Channels: Other
Gene Summary:	This gene encodes a protein containing a BTB (Broad-complex, tramtrack and bric a brac), also known as a POZ (POxvirus and zinc finger) protein-protein interaction domain. The encoded protein negatively regulates the AP-2 family of transcription factors and the Wnt signaling pathway. A mechanism for the modulation of Wnt signaling has been proposed in which the encoded protein enhances ubiquitination and degradation of the beta-catenin protein. Mutations in this gene have been identified in Scalp-ear-nipple (SEN) syndrome. [provided by RefSeq, May 2017]