

## Product datasheet for **RG232328**

### **KCTD1 (NM\_001258222) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KCTD1 (NM\_001258222) 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:** >RG232328 representing NM\_001258222  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAGGACAGTCGGCCCAATATGTCAAGACCTCTGATCACTAGATCCCCTGCATCTCCACTGAACA  
ACCAAGGCATCCCTACTCCAGCACAACTCACAAAATCCAATGCGCCTGTCCACATTGATGTGGGCGGCCA  
CATGTACACCAGCAGCCTGGCCACCCTACCAAATACCCTGAATCCAGAATCGGAAGACTTTTTGATGGT  
ACAGAGCCATTGTTTTGGACAGTCTCAAACAGCACTATTTTCATTGACAGAGATGGACAGATGTTTCAGAT  
ATATCTTGAATTTCTACGAACATCCAACTCCTCATTCTGATGATTTCAAGGACTACACTTTGTATA  
TGAAGAGGCAAAATATTTTCAGCTTCAGCCATGTTGTTGGAGATGGAAAAGATGGAAGCAGGACAGAGAA  
ACTGGTCGATTTTCAAGGCCCTGTGAGTGCCTCGTCGTGCGTGTGGCCCCAGACCTCGGAGAAAAGGATCA  
CGCTAAGCGGTGACAAATCCTTGATAGAAGAAGTATTTCCAGAGATCGGCGACGTGATGTGTAACCTGT  
CAATGCAGGCTGGAATCACGACTCGACGCACGTATCAGGTTTCCACTAAATGGCTACTGTCACCTCAAC  
TCAGTCCAGGTCCTCGAGAGGTTGCAGCAAAGAGGATTTGAAATCGTGGGCTCCTGTGGGGGAGGAGTAG  
ACTCGTCCAGTTCAGCGAATACGTCCTTCGGCGGGAAGTGGGCGGACGCCCGTGTACCTCCGTCAT  
CCGGATAAAGCAAGAGCCTCTGGAC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG232328 representing NM\_001258222  
 Red=Cloning site Green=Tags(s)

MFQDSRPNMSRPLITRSPASPLNNGIPTPAQLTKSNAPVHIDVGGHMYTSSLATLTKYPESRIGRLFDG  
 TEPIVLDSLKQHYFIDRDGQMFYILNFLRTSKLLIPDDFKDYTLLEYEAKYFQLQPMLLEMERWKQDRE  
 TGRFSRPCECLVVRVAPDLGERITLSGDKSLIEEVFPEIGDVMCNSVNAGWNHDS THVIRFPLNGYCHLN  
 SVQYLERLQQRGFEIVGSCGGGVDSSQFSEYVLRRELRRTPRVPSVIRIKQEPLD

TRTRPLE - GFP Tag - V

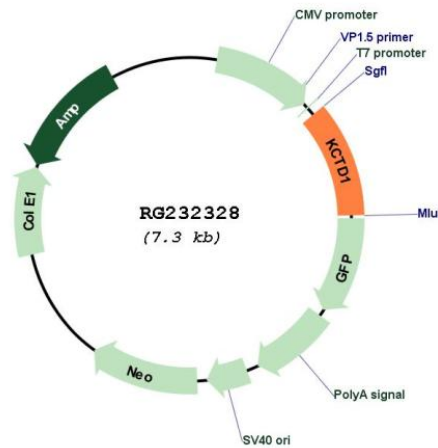
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001258222

**ORF Size:** 795 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001258222.3</a>  |
| <b>RefSeq Size:</b>           | 1671 bp   |
| <b>RefSeq ORF:</b>            | 798 bp  |
| <b>Locus ID:</b>              | 284252  |
| <b>Cytogenetics:</b>          | 18q11.2   |
| <b>Protein Families:</b>      | Ion Channels: Other   |
| <b>Gene Summary:</b>          | 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] |