

## Product datasheet for **RG207723**

### **KCTD10 (NM\_031954) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KCTD10 (NM_031954) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCTD10
Synonyms:	BTBD28; hBACURD3; MSTP028; ULRO61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207723 representing NM_031954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGAGATGTCAGGAGAAAGTGTGGTGTGAGCTCAGCGGTGCCAGCGGCTGCTACCCGCACCACTTCT  
TCAAGGGCACGAGCCCCAGCTCCAAATACGTGAAGCTGAATGTGGGTGGAGCCCTCTACTATACCACCAT  
GCAGACGCTGACCAAGCAGGACACCATGCTGAAGGCCATGTTAGCGGGCGCATGGAAGTGTCCACCGAC  
AGTGAAGGCTGGATCCTCATTGACCGCTGTGGGAAGCACTTTGGTACGATACTCAACTACCTTCGAGACG  
GGCGGTGCCTTTACCCGAGAGCCCGGGAGATCGAGGAGCTGCTAGCAGAAGCCAAGTACTACCTAGT  
CCAAGGCCTGGTGAAGAGTGCCAGGCGGCCCTACAAAACAAAGATACTTATGAGCCTTTCTGCAAGGTC  
CCTGTGATCACCTCATCCAAGGAAGAACAACAACTTATAGCGACTTCAAATAAGCCAGCCGTGAAGTTGC  
TCTACAACAGAAGTAACAACAAATACTCATATACCAGCAATTCTGACGACAATATGTTGAAAAACATTGA  
ACTGTTTGATAAGCTGTCTCTGCGCTTTAACGGAAGGGTCTGTTGATAAAGGATGTGTTGGGGATGAA  
ATCTGTGCTGGTCTTTTATGGTCAGGGCCGGAAGATTGCTGAAGTCTGTTGTACCTCCATCGTCTATG  
CCACTGAGAAGAAACAGACCAAGGTGGAGTTTCCGAAGCCCGGATTTATGAGGAGACCCGTAACATTTT  
GCTGTATGAGGCCAGGATGGCCGGGACCTGACAATGCGCTCCTGGAGGCCACAGGCGGGGCGGGGG  
CGCTCCACCACTGGACGAGGACGAGGAGCGGGAGCGGATCGAGCGGTGCGGAGGATCCACATCAAGC  
GCCTGATGACCGGGCCACCTCCACCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207723 representing NM\_031954  
Red=Cloning site Green=Tags(s)

MEEMSGESVSSAVPAAATRSTTSFKGTSPSSKYVKLVGGALYYTMTQLTKQDTMLKAMFSGRMEVLT  
 SEGWILIDRCGKHFGTILNLYLDGAVPLPESRREIEELLAEAKYLVQGLVEECQAALQNKDYEYFCKV  
 PVITSSKEEQKLIATSNKPAVKLLYNRSNNKYSYTSNSDDNMLKNIELFDKLSLRFNGRVLFIKDVI  
 GDEICCSWVYQGRKIAEVCCTSIVYATEKKQTKVEFPEARIYEETLNILLYEAQDGRGPDNALLEATGGAAG  
 RSHHLDEDEERERIERVRRRIHIKRPDDRAHLHQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_031954

**ORF Size:** 939 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\\_031954.2](#)

**RefSeq Size:** 4057 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 83892

**UniProt ID:** [Q9H3F6](#)

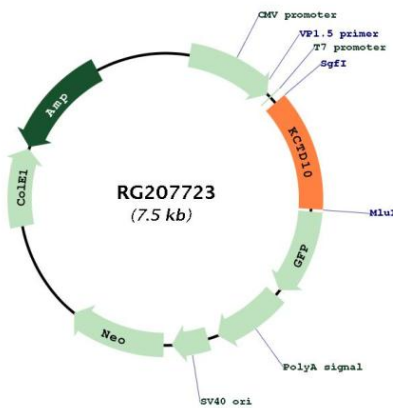
**Cytogenetics:** 12q24.11

**Domains:** BTB, K\_tetra

**Protein Families:** Ion Channels: Other

**Gene Summary:** The protein encoded by this gene binds proliferating cell nuclear antigen (PCNA) and may be involved in DNA synthesis and cell proliferation. In addition, the encoded protein may be a tumor suppressor. Several protein-coding and non-protein coding transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

### Product images:



Circular map for RG207723