

## Product datasheet for **RC226992**

### **TCTN2 (NM\_001143850) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | TCTN2 (NM_001143850) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                     |
| Symbol:                   | TCTN2                                       |
| Synonyms:                 | C12orf38; JBTS24; MKS8; TECT2               |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-Entry (PS100001)                      |
| E. coli Selection:        | Kanamycin (25 ug/mL)                        |



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**ORF Nucleotide  
Sequence:**

>RC226992 representing NM\_001143850  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCTTCCAGCCTCCGGCCGCTCTTCTTTGAGGCTTTTCTTCTGCAGGGCATCCTGAGGCTTCTGT  
 GGGGGGACCTGGCTTTTCATCCCTCCTTTTATCCGAATGTCCGGCCCTGCGGTGAGCGCGTCCCTGGTCGG  
 AGACACCGAGGGTGTGACCGTGTCCCTGGCAGTGTGCAGGACGAGGCGGAATATTGCCAATCCGACG  
 TGTGGAGTGTGAACAATGAGACGGAAGACTGGAGCGTGAAGTGTGATCCCGGTGCGGTGTTGGAAGTGA  
 CAGTGAGGTGGAAGAGAGGTCTGGACTGGTGTCTCCTCAATGAGACAGATTCTTCTCAGAGTCCCCCTG  
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 GAAATTTATGCCAATCTTCTGACCCATAATGCCTCAGAGAACGTGACTGTCATTCTAACCAAGGTGT  
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 GGAATGCTCATCAAATTTAACACGCTGTTGAGACGGTCTGCTTACCGGCGTGTGGAGGAGACGTC  
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 ACAGGACTCTTCTTTGAAGTATATGTGGATACTGACGCAAAAGACTTTGCAGACTTTGGTTACAAACAA  
 GGAGATCCCATATGACTGTAAAGAAGGCATATTTTACTATCCGAGGTGTCCCTGGCTGGGAGTGTGTA  
 TGCAGAACGCCCCAGTGGCATTCTTCACAATTTTATGTTAAATGCGTTACTAATTTGGAATATACCA  
 AGAACGAGATGGTATTATCAATGCGAAGATAAAGAATGTTGCCTTAGGAGGCATAGTTACACCAAAAGTG  
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 CCCCTAGAATTGTGAATGTGGAAGAATTTATTTTCAAATGGAATAATAATACCATCAGTGAAATAAA  
 TGTAAAAATTTTATGGGACAGAGATTAATGCCACACAGAAAGGATAATGACACAGAGATTTGTAGTAAAA  
 TTTTAAAGCTATAATAGTGGTAATGAAGAAGATTATCTGGAATCCAGGTTACCAACTTGGCAAGCCTG  
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 GTCGGGATTAATGAAAATTGACTCAGCTCAGGAGAAATGCTGTTGAAAGACTTGATTCTTAATACAAG  
 CGACTCACGTTGCAATGAGAGGCAACTCCGATTACGCTGATCTTAGTGATGGCTGGCTCGAAATAATACG  
 TGTAGATGCCCTGATCCAGGTGCAGACCCGCTGGCTAGCAGTGTGAACGGCATGTGCTGGATATTCCT  
 GCTCACCTGAGCATCCGATCCTCATCTCGGATGCTGGCGCGGTGGAAGGATTACTCAGCAGGAGATAC  
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 CGACCTTCTCCTATCAGTGCATCCGTCCAGTTTATTAATAATTCCTGCACAGTTACCCACCCCTGACA  
 AGATTCCAGATCAATTATACAGAGTATGACTGCAACAGAAATGAGGTGTGTTGGCCGAGCTTCTATATC  
 CATGGACTCAGTATTATCAAGGGGAGCTGCATTCTCAGTGTGTTGCTAAGGGCTTACTGTTGCTGTTGTT  
 CCTCACATTGGCCTTGTCTCTCAGCAACCCCTGGACCAGAATATGCAAGCCTATAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

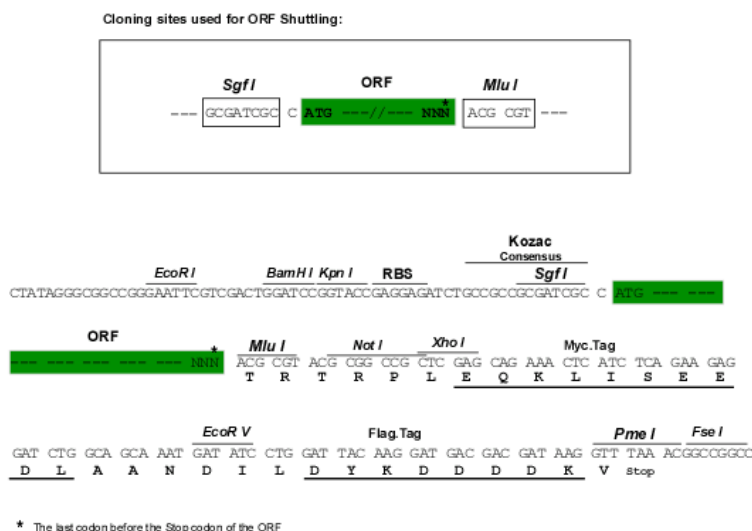
**Protein Sequence:** >RC226992 representing NM\_001143850  
Red=Cloning site Green=Tags(s)

MGFQPPAALLRLFLQIGILRLWGDFAIPPFIRMSGPAVSASLVGDTEGVTSLAVLQDEAGILPIPT  
CGVLNNETEDWSVTVIPGAVLEVTVRWKRGDLWCSSNETDSFSESPCILQTLLVSASHNSSCSAHLIQV  
EIYANSSLTHNASENVTVIPNQVYQPLGPCPNLTAGACDVRCCDQECSSNLTTLFRRSCFTGVFGGDV  
NPPFDQLCSAGTTTRGVPDWFPLCVQSPLANTPFLGYFYHGA VSPKQDSSFEVYVDTDAKDFADFGYKQ  
GDPIMTVKKAYFTIPQVSLAGQCMQNAVAF LHNFDVKCVTNLELYQERDGIINAKIKNALGGIVTPKV  
IYEEATDLDKFITNTETPLNNGSTPRIVNVEEHYIFKWNNTISEINVKIFRAEINAHQKGIMTQRFVVK  
FLSYNSGNEEELSGNPQYLGKPVRLNINRMNVTTLHLWQSAGRGLCTSATFKPILFGENVLSGCLLE  
VGINENCTQLRENAVERLDSL IQATHVAMRGNSDYADLSDGWLEIIRVDAPDPGADPLASSVNGMCLDIP  
AHL SIRILISDAGAVEGITQQEILGVETRFSSVNWQYQCGLTCEHKADLLPISASVQFIKIPAQLPHPLT  
RFOINYTEYDCNRNEVCWPOLLYPWTQYYOGELHSOCVAKGLLLLLFLTLALFLSNPWTRICKAYS

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

### Cloning Scheme:



ACCN: NM 001143850

ORF Size: 2088 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001143850.3](#)

**RefSeq Size:** 2927 bp

**RefSeq ORF:** 2091 bp

**Locus ID:** 79867

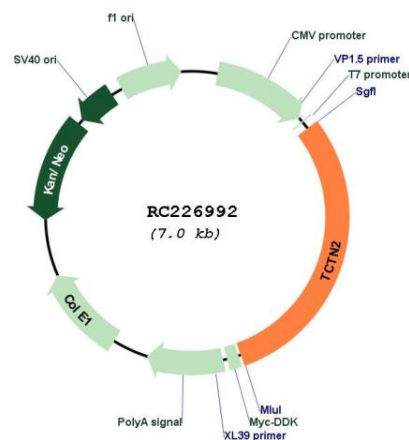
**UniProt ID:** [Q96GX1](#)

**Cytogenetics:** 12q24.31

**MW:** 76.7 kDa

**Gene Summary:** This gene encodes a type I membrane protein that belongs to the tectonic family. Studies in mice suggest that this protein may be involved in hedgehog signaling, and essential for ciliogenesis. Mutations in this gene are associated with Meckel syndrome type 8. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

## Product images:



Circular map for RC226992