

## Product datasheet for **RC230156**

### TCTN1 (NM\_001173976) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCTN1 (NM_001173976) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TCTN1
Synonyms:	JBTS13; TECT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC230156 representing NM\_001173976  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCACAGCTCACTGCAGCCTCGACCTCTAGGCTCAGTTGCTGTTCTCTGTGCTGTGACTTATCCC  
 CAGCACAGTGTGACATCAACTGCTGCTGTGATCCCGACTGCAGCTCCGTGGATTTTCAAGTGTCTTTCTGC  
 CTGCTCAGTTCCAGTTGTACGGGCGACAGCCAGTTTTGTAGTCAAAAAGCAGTCATCTATTTCATTGAAT  
 TTTACAGCAAACCCACCTCAAAGAGATTTGAACTTGTGACCAGATTAATCCATCTATTTTCTGCATTC  
 ATATTACAACTATAAACCTGCATTATCCTTTATTAATCCAGAAGTACCTGATGAAAACAATTTTGATAC  
 ATTGATGAAAACATCTGATGGTTTTACATTGAATGCTGAATCATATGTTTCTTCAACCAAACCTGGAT  
 ATTCCTACTGCTGCTAAATATGAGTATGGGGTTCCTCTGCAGACTTCAGATTCGTTTCTGAGATTCCTT  
 CGTCCCTGACATCATCTCTGTGACTGATAATAACCCTGCAGCGTTTCTGGTGAACCAAGGCTGTTAAGTG  
 CACCAGAAAAATAAATTTAGAACAGTGTGAAGAAATTGAAGCCCTCAGCATGGCTTTTTACAGCAGCCCG  
 GAAATTCGAGGGTACCTGATTCAGAAAAAAGGTCCTATCACTGTTCCAGTCCATCGCTATTTCAGTCTC  
 TAAATAAAACGCTCACCCGACGGGAGGACACTGATGTGCTGCAGCCGACTCTCGTCAACGCTGGACACTT  
 TAGCCTTTGCGTGAATGTTGTTCTTGAGGTAAGTACAGCCTCACATACACAGATGCAGGTGAAGTACC  
 AAAGCTGATCTCTCATTGTTCTGGGGACAGTTAGCAGCGTAGTGGTCCCACTGCAGCAAAAGTTTGAAA  
 TTCATTTTCTTCAGAAAAATACCCAGCCAGTCCCTCTCAGTGGAAACCTGGTTATGTCGTGGGGCTCCC  
 ATTAGCTGCTGGATTCCAGCCTCATAAGGGTGGAGCTCTCCCGTGCAGCTCGTAGCACAGAAGGTGAAG  
 AGCCTGCTGTGGGGCCAGGGCTCCAGATTACGTGGCCCTTTTGAAAATCCAGGCCCAGGACATGC  
 TGGACTGGGTGCCATCCACTTCAACAGGAAAGCATTGTTGTTTGCAGGATTCCTG  
 CCAGCTCCAGGGGCTTTGGTTATAGAAGTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCC  
 AAAATAGTCAATGTAACGCAAATCTAATTTTCCTCCTTTCTGAGGCCAACTCAGGAAATGAAAGGA  
 CGATTCTATTTCCACTGCGGTTACTTTTGTGGATGTGTCTGCACCTGCAGAGGCAGGCTTCAGAGCTCC  
 ACCAGCCATCAATGCCAGGCTGCCCTTAACTTCTTCCCGTTTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230156 representing NM\_001173976  
 Red=Cloning site Green=Tags(s)

MITAHCSLDLLGSVAVLCVCDLSPAQCINCCDPDCSSVDFSVFSACSVPVVTGDSQFCSQKAVIYSLN  
 FTANPPQRVLFELVDQINPSIFCIHITNYKPALSFINPEVPDENNFDTLMKTSDFGLTNAESYVVSFTTKLD  
 IPTAAKYEYGVPLQTSDFSFLRFPSLTSLLCTDNNPAAFLVNQAVKCTRKINLEQCEEIEALSMAFYSSP  
 EILRVPSRKKVPITVQSIQSLNKTLLRREDTDVLQPTLVNAGHFLCVNVVLEVKYSLTYTDAGEVT  
 KADLSFVLGTVSSVVVPLQQKFEIHFLQENTQPVPLSGNPGYVVGPLAAGFQPHKGGALPCQLVAQKVK  
 SLLWGQGFDPYVAPFGNSQAQDMLDWVPIHFITQSFNRKHVFLQDSCQLPGALVIEVKWTKYGSLLNPQA  
 KIVNVTANLISSSFPEANSNGERNILISTAVTFVDVSAPAEAGFRAPPAINARLPFNFFFPFV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8062\\_g11.zip](https://cdn.origene.com/chromatograms/mk8062_g11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001173976

**ORF Size:** 1449 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\\_001173976.2](#)
**RefSeq ORF:** 1452 bp

**Locus ID:** 79600

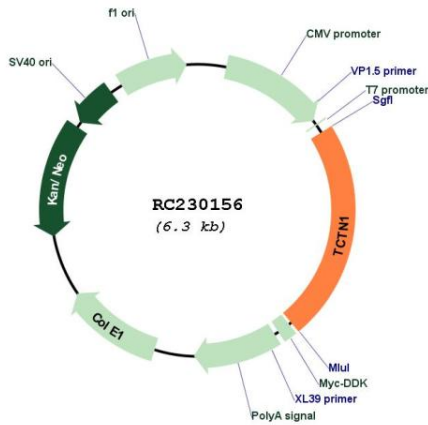
**UniProt ID:** [Q2MV58](#)
**Cytogenetics:** 12q24.11

**Protein Families:** Secreted Protein

**MW:** 53.2 kDa

**Gene Summary:** This gene encodes a member of a family of secreted and transmembrane proteins. The orthologous gene in mouse functions downstream of smoothed and rab23 to modulate hedgehog signal transduction. This protein is a component of the tectonic-like complex, which forms a barrier between the ciliary axoneme and the basal body. A mutation in this gene was found in a family with Joubert syndrome-13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

**Product images:**



Circular map for RC230156