

## Product datasheet for **RC230238**

### **TCTN1 (NM\_001173975) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TCTN1 (NM_001173975) 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:**

>RC230238 representing NM\_001173975  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGCCAGTCTCTGGAGTCCACAGTGATCCAACCTCAAGGGGACAGCCCGTTGCTGTTCTCTGTGTCT  
 GTGACTTATCCCCAGCACAGTGTGACATCAACTGCTGCTGTGATCCCGACTGCAGCTCCGTGGATTCAG  
 TGTCTTTTCTGCCTGCTCAGTTCAGTTGTACGGGCGACAGCCAGTTTTGTAGTCAAAAAGCAGTCATC  
 TATTCATTGAATTTACAGCAAACCCACCTCAAAGAGATTTGAACTTGTGACCAGATTAATCCATCTA  
 TTTTCTGCATTATATTACAAACTATAAACCTGCATTATCCTTTATTAATCCAGAAGTACCTGATGAAAA  
 CAATTTTGATACATTGATGAAAACATCTGATGGTTTTACATTGAATGCTGAATCATATGTTTCCTCACA  
 ACCAAACTGGATATTCCTACTGCTGCTAAATATGAGTATGGGGTTCCTCTGCAGACTTCAGATTCGTTTC  
 TGAGATTTCTTCGTCCTGACATCATCTCTGTGCACTGATAATAACCCTGCAGCGTTTCTGGTGAACCA  
 GGCTGTTAAGTGCACCAGAAAAATAAATTTAGAACAGTGTGAAGAAATTGAAGCCCTCAGCATGGCTTTT  
 TACAGCAGCCCGAAATTCAGGGTACCTGATTAAGAAAAAAGGTCCCTATCACTGTTAGTCCATCG  
 TCATTCAGTCTCTAAATAAACGCTCACCCGACGGGAGGACACTGATGTCTGCAGCCGACTCTCGTCAA  
 CGCTGGACACTTTAGCCTTTGCGTGAATGTTGTTCTTGAGGTAAGTACAGCCTCACATACAGATGCA  
 GGTGAAGTACCAAAGCTGATCTCTCATTGTTCTGGGACAGTTAGCAGCGTAGTGGTCCCCTGCAGC  
 AAAAGTTTGAATTCATTTTCTCAGGAAAAATCCAGCCAGTCCCTCTCAGTGGAAACCCTGGTTATGT  
 CGTGGGGCTCCCATTAGCTGCTGGATCCAGCCTCATAAGGGTCTGGGATTATTCAGACCACAAATAGA  
 TATGGACAGCTTACTATCTTATAGCACAAGTGAAGCAAGTACTGCTTACTGAGGAGGTTCCGGACCC  
 CAGTATTTGTTTACACTATGCAATCTGGCTGTAACCTAAGACTGACTGGAGCTCTCCGTTGTCAGT  
 CGTAGCACAGAAGGTGAAGAGCCTGCTGTGGGGCCAGGGCTTCCAGATTACGTGGCCCTTTTGGAAAT  
 TCCAGGCCAGGACATGCTGGACTGGGTGCCATCCACTTCATACCCAGTCATTCAACAGGAAGGATT  
 CCTGCCAGCTCCCAGGGCTTTGGTTATAGAAGTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACA  
 GGCCAAAATAGTCAATGTAAGTGCAAAATCTAATTTATCTCTCTTCTGAGGCCAACTCAGGAAATGAA  
 AGGACGATTCTTATTTCCACTGCGGTTACTTTTGTGGATGTGTCTGCACCTGCAGAGGCAGGCTTCAGAG  
 CTCACCAGCCATCAATGCCAGGCTGCCCTTAACTTCTCTTCCCGTTTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230238 representing NM\_001173975  
 Red=Cloning site Green=Tags(s)

MCQLESTVIQPGDSPVAVLVCVDLSPAQCDINCCDPDCSSVDFSVFSACSVPVVTGDSQFCSQKAVI  
 YSLNFTANPPQRFVFLVDQINPSIFCIHITNYKPALSFINPEVPDENNFDTLMKTSDFTLNAESYVSFT  
 TKLDIPTAAKYEYGVPLQTSDFSFLRFPSSLTSSLCTDNNPAAFLVNQAVKCTRKINLEQCEEIEALSMAF  
 YSSPEILRVPDSRKKVPI TVQSI VIQSLNKTL TRREDTDVLQPTLVNAGHFSLCVNVVLEVKYSLTYTDA  
 GEVTKADLSFVLGTVSSVVVPLQKFEIHFLQENTQPVPLSGNPGYVVGLPLAAGFQPHKSGSIIQTTNR  
 YGQLTILHSTTEQDCLALEGVRTPVLFGYTMQSGCKLRLTGALPCQLVAQKVKSLWLGQGFDPYVAPFGN  
 SQAQDMLDWPIHFITQSFNRKDCQLPGALVIEVKWTKYGSLLNPQAKIVNVTANLISSSFPEANSNE  
 RTILISTAVTFVDVSAPAEAGFRAPPAINARLPNFFFPFV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8065\\_g02.zip](https://cdn.origene.com/chromatograms/mk8065_g02.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001173975

**ORF Size:** 1593 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\\_001173975.3](#)

**RefSeq ORF:** 1596 bp

**Locus ID:** 79600

**UniProt ID:** [Q2MV58](#)

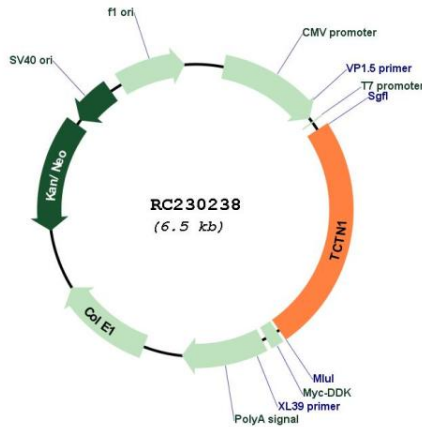
**Cytogenetics:** 12q24.11

**Protein Families:** Secreted Protein

**MW:** 58.5 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 RC230238