

## Product datasheet for **RC224477**

### TCTN1 (NM\_001082538) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCTN1 (NM_001082538) 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:**

>RC224477 representing NM\_001082538  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCCGCGAGGTCTCCCGCCGCTCCTGGTGGTCTCTGGGCTGCTGGCCCTCCGTGAGCGCCAGAC  
 CCGATGCCACCCCGCGGTGACGACAGAGGGCCTCAACTCCACCGAGGCAGCCCTGGCCACCTTCGGAAC  
 TTTCCCGTCGACCAGGCCCCCGGGACTCCAGGGCTCCAGGGCCCTCCTCCGGCCCGAGCCCTACCCCA  
 GTCACGGACGTTGCTGTTCTCTGTGTCTGTGACTTATCCCGACACAGTGTGACATCAACTGCTGTGTG  
 ATCCCGACTGCAGCTCCGTGGATTTTCAGTGTCTTTTCTGCCTGCTCAGTTCAGTTGTCACGGGCGACG  
 CCAGTTTTGTAGTCAAAAAGCAGTCATCTATTCATTGAATTTTACAGCAAACCCACCTCAAAGAGTATTT  
 GAACTTGTGACCAGATTAATCCATCTATTTTCTGCATTCATATTACAACTATAAACCTGCATTATCCT  
 TTATTAATCCAGAAGTACCTGATGAAAACAATTTTGATACATTGATGAAAACATCTGATGGTTTTACATT  
 GAATGCTGAATCATATGTTTCCTTCAACCAAACTGGATATTCCTACTGCTGCTAAATATGAGTATGGG  
 GTTCTCTGCAGACTTCAGATTCGTTTCTGAGATTTCTTCGTCCTGACATCATCTCTGTGCAGTATA  
 ATAACCTGCAGCGTTTCTGGTGAACAGGCTGTTAAGTGCACCAGAAAAATAAATTTAGAACAGTGTGA  
 AGAAATGAAGCCCTCAGCATGGCTTTTACAGCAGCCCGAAATTTCTGAGGGTACCTGATTCAAGAAAA  
 AAGGTCCTATCACTGTTTCAGTCCATCGTCATTAGTCTCTAAATAAAACGCTCACCCGACGGGAGGACA  
 CTGATGTGCTGCAGCCGACTCTCGTCAACGCTGGACACTTTAGCCTTTCGCGTGAATGTTGTTCTTGAGGT  
 AAAGTACAGCCTCACATACAGATGCAGGTGAAGTCAACAAAGCTGATCTCTCATTGTTCTGGGGACA  
 GTTAGCAGCGTAGTGGTCCCAGTGCAGCAAAAAGTTTGAATTCATTTTCTCAGGAAAAACCCAGCCAG  
 TCCCTCTCAGTGGAAACCTGGTTATGTCGTGGGGCTCCATTAGCTGCTGGATTCCAGCCTCATAAGGG  
 GTCCTGGGATTATTCAGACCACAAAATAGATATGGACAGCTTACTATTCTTCATAGCACAACTGAGCAAGAC  
 TGCTTAGCACTGGAGGGGTCCGGACCCAGTATTATTTGGTTACTATGCAATCTGGCTGTAACCTAA  
 GACTGACTGGAGCTCTCCCGTGCAGCTCGTAGCACAGAAGTGAAGAGCCTGCTGTGGGGCCAGGGCTT  
 CCCAGATTACGTGGCCCTTTTGGAAATCCCAGGCCAGGACATGCTGGACTGGGTGCCATCCACTTC  
 ATCACCAGTCAATCAACAGGAAGCATTGTTTGGTTCAGGATTCTGCCAGCTCCAGGGGCTTTGGTTA  
 TAGAAGTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAATGTAAGTCAAA  
 TCTAATTTTCATCCTCTTCTGAGGCCAACTCAGGAAATGAAAGGACGATTCTTATTTCCACTGCGGTT  
 ACTTTTGTGGATGTGCTGCACCTGCAGAGGCAGGCTTCAGAGCTCCACCAGCCATCAATGCCAGGCTGC  
 CCTTAACTTCTTCTCCGTTTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224477 representing NM\_001082538  
 Red=Cloning site Green=Tags(s)

MRPRGLPPLLVLVLLGCWASVSAQTDATPAVTTEGLNSTEALATFGTFPSTRPPGTPRAPGPSSGPRPTP  
 VTDVAVLVCVCDLSPAQCINCCDPDCSSVDFSVFSACSVPVVTGDSQFCSQKAVIYSLNFTANPPQRVF  
 ELVDQINPSIFCIHITNYKPAISFINPEVPDENNFDTLMKTSDFTLNAESYVSFTTKLDIPTAAKYEYG  
 VPLQTSDFSFLRFPSLSTSLCTDNPAFLVNQAVKCTRINLEQCEEIEALSMAFYSSPEILRVPDSRK  
 KVPITVQSIVIQSLNKTLTRREDTDLQPTLVNAGHFLCVNVVLEVKYSLTYTDAGEVTKADLSFVLGT  
 VSSVVVPLQQKFEIHFLQENTQPVPLSGNPGYVGLPLAAGFQPHKGSIGIQTNNRYGQLTILHSTTEQD  
 CLALEGVRTPVLFGYTMQSGCKLRLTGALPCQLVAQKVKSLWQGFDPDYVAPFGNSQAQDMLDWVPIHF  
 ITQSFNRKHFVLDQSCQLPGALVIEVKWTKYGSLLNPQAKIVNVTANLISSSFPEANSNERTILISTAV  
 TFVDVSAPAEAGFRAPPAINARLPFNFFFPFV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8068\\_h01.zip](https://cdn.origene.com/chromatograms/mk8068_h01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001082538

ORF Size: 1776 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\\_001082538.3](#)

RefSeq Size: 1992 bp

RefSeq ORF: 1779 bp

Locus ID: 79600

UniProt ID: [Q2MV58](#)

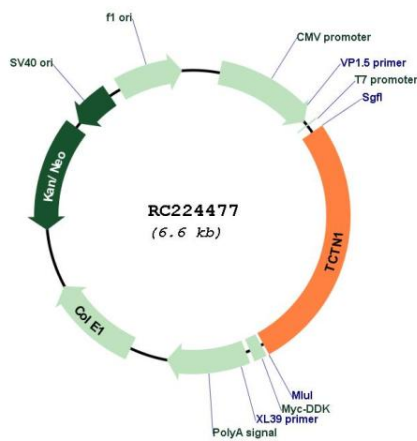
Cytogenetics: 12q24.11

Protein Families: Secreted Protein

MW: 64 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 RC224477