

Product datasheet for **RG224477**

TCTN1 (NM_001082538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCTN1 (NM_001082538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCTN1
Synonyms:	JBTS13; TECT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224477 representing NM_001082538
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCCGCGAGGTCTCCCGCCGCTCCTGGTGGTGTCTCTGGGCTGCTGGCCCTCCGTGAGCGCCAGAC
 CCGATGCCACCCCGCGGTGACGACAGAGGGCCTCAACTCCACCGAGGCAGCCCTGGCCACCTTCGGAAC
 TTTCCCGTCGACCAGGCCCCCGGGACTCCAGGGCTCCAGGGCCCTCCTCCGGCCCGAGCCCTACCCCA
 GTCACGGACGTTGCTGTTCTCTGTGTGTGACTTATCCCGACACAGTGTGACATCAACTGCTGTGTG
 ATCCCGACTGCAGCTCCGTGGATTTTCAGTGTCTTTTCTGCCTGCTCAGTTCAGTTGTACGGGCGACAG
 CCAGTTTTGTAGTCAAAAAGCAGTCATCTATTCATTGAATTTTACAGCAAACCCACCTCAAAGAGTATTT
 GAACTTGTGACCAGATTAATCCATCTATTTCTGCATTCATATTACAACTATAAACCTGCATTATCCT
 TTATTAATCCAGAAGTACCTGATGAAAACAATTTTGATACATTGATGAAAACATCTGATGGTTTTACATT
 GAATGCTGAATCATATGTTTCCTTCAACCAAACTGGATATTCCTACTGCTGCTAAATATGAGTATGGG
 GTTCTCTGCAGACTTCAGATTCGTTTCTGAGATTTCTTCGTCCTGACATCATCTCTGTGCACTGATA
 ATAACCTGCAGCGTTTCTGGTGAACAGGCTGTTAAGTGCACCAGAAAAATAAATTTAGAACAGTGTGA
 AGAAATGAAGCCCTCAGCATGGCTTTTACAGCAGCCCGAAATTTCTGAGGGTACCTGATTCAAGAAAA
 AAGGTCCTATCACTGTTTCAGTCCATCGTCATTAGTCTCTAAATAAAACGCTCACCCGACGGGAGGACA
 CTGATGTGCTGCAGCCGACTCTCGTCAACGCTGGACACTTTAGCCTTTCGCGTGAATGTTGTTCTTGAGGT
 AAAGTACAGCCTCACATACAGATGCAGGTGAAGTCAACAAAGCTGATCTCTCATTCTGTTCTGGGGACA
 GTTAGCAGCGTAGTGGTCCACTGCAGCAAAAGTTTGAATTCATTTTCTTCAGGAAAAACCCAGCCAG
 TCCCTCTCAGTGGAAACCTGGTTATGTCGTGGGGCTCCATTAGCTGCTGGATTCCAGCCTCATAAAGGG
 GTCTGGGATTATTCAGACCACAAATAGATATGGACAGTTACTATTCTTCATAGCACAACTGAGCAAGAC
 TGCTTAGCACTGGAGGGGTCCGGACCCAGTATTATTTGGTTACTATGCAATCTGGCTGTAACATAA
 GACTGACTGGAGCTCTCCCGTGCAGCTCGTAGCACAGAAGTGAAGAGCCTGCTGTGGGGCCAGGGCTT
 CCCAGATTACGTGGCCCTTTTGGAAATCCCAGGCCAGGACATGCTGGACTGGGTGCCATCCACTTC
 ATCACCCAGTCATTCAACAGGAAGCATTGTTTGGTGGCAGGATTCTGCCAGCTCCAGGGGCTTTGGTTA
 TAGAAGTGAAGTGGACTAAATACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAATGTAAGTCAAA
 TCTAATTTTCATCCTCTTCTGAGGCCAACTCAGGAAATGAAAGGACGATTCTTATTTCCACTGCGGTT
 ACTTTTGTGGATGTGCTGCACCTGCAGAGGCAGGCTTCAGAGCTCCACCAGCCATCAATGCCAGGCTGC
 CCTTAACTTCTTCTCCGTTTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224477 representing NM_001082538
 Red=Cloning site Green=Tags(s)

MRPRGLPPLLVLVLLGCWASVSAQTDATPAVTTEGLNSTEALATFGTFPSTRPPGTPRAPGPSSGPRPTP
 VTDVAVLCVCDLSPAQCDINCCDPDCSSVDFSVFSACSVPVVTGDSQFCSQKAVIYSLNFTANPPQRVF
 ELVDQINPSIFCIHITNYKPAISFINPEVPDENNFDTLMKTSDFTLNAESYVSFTTKLDIPTAAKYEYEG
 VPLQTSDFSFLRFPSL TSSLCTDNNPAAFLVNQAVKCTRKINLEQCEEIEALSMAFYSSPEILRVPDSRK
 KVPITVQSIVIQSLNKTLTRREDTDLVQPTLVNAGHFLCVNVVLEVKYSLTYTDAGEVTKADLSFVLGT
 VSSVVVPLQQKFEIHFLQENTQPVPLSGNPGYVVGGLPLAAGFQPHKGSIGIQTNNRYGQLTILHSTTEQD
 CLALEGVRTPVLFGYTMQSGCKLRLTGALPCQLVAQKVKSLWQGFDPYVAPFGNSQAQDMLDWVPIHF
 ITQSFNRKHVFLQDSCQLPGALVIEVKWKYGSLLNPQAKIVNVTANLISSSFPEANSNERTILISTAV
 TFVDVSAPAEAGFRAPPAINARLPFNFFFPFV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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

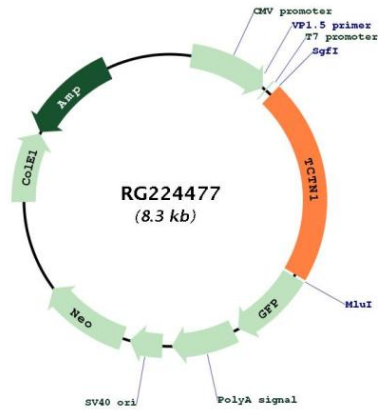
UniProt ID: [Q2MV58](#)

Cytogenetics: 12q24.11

Protein Families: Secreted Protein

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 RG224477