

## Product datasheet for **RG209467**

### **TCTN1 (NM\_001082537) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TCTN1 (NM_001082537) 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:**

>RG209467 representing NM\_001082537  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGCCGCGAGGTCTCCCGCCGCTCCTGGTGGTGTCTCTGGGCTGCTGGCCCTCCGTGAGCGCCAGAC  
 CCGATGCCACCCCGCGGTGACGACAGAGGGCCTCAACTCCACCGAGGCAGCCCTGGCCACCTTCGGAAC  
 TTTCCCGTCGACCAGGCCCCCGGGACTCCAGGGCTCCAGGGCCCTCCTCCGGCCCGAGCCCTACCCCA  
 GTCACGGACGTTGCTGTTCTCTGTGTGTGACTTATCCCGACACAGTGTGACATCAACTGCTGTGTG  
 ATCCCGACTGCAGCTCCGTGGATTTTCAGTGTCTTTTCTGCCTGCTCAGTTCAGTTGTACGGGCGACAG  
 CCAGTTTTGTAGTCAAAAAGCAGTCATCTATTCATTGAATTTTACAGCAAACCCACCTCAAAGAGTATTT  
 GAACTTGTGACCAGATTAATCCATCTATTTCTGCATTCATATTACAACTATAAACCTGCATTATCCT  
 TTATTAATCCAGAAGTACCTGATGAAAACAATTTTGATACATTGATGAAAACATCTGATGGTTTTACATT  
 GAATGCTGAATCATATGTTTCTTCAACCAAACTGGATATTCCTACTGCTGCTAAATATGAGTATGGG  
 GTTCTCTGCAGACTTCAGATTCGTTTCTGAGATTTCTTCGTCCTGACATCATCTCTGTGCACTGATA  
 ATAACCTGCAGCGTTTCTGGTGAACAGGCTGTTAAGTGCACCAGAAAAATAAATTTAGAACAGTGTGA  
 AGAAATGAAGCCCTCAGCATGGCTTTTACAGCAGCCCGAAATTTCTGAGGGTACCTGATTCAAGAAAA  
 AAGGTCCCTATCACTGTTTCAGTCCATCGTCATTAGTCTCTAAATAAAACGCTCACCCGACGGGAGGACA  
 CTGATGTGCTGCAGCCGACTCTCGTCAACGCTGGACACTTTAGCCTTTGCGTGAATGTTGTTCTTGAGGT  
 AAAGTACAGCCTCACATACAGATGCAGGTGAAGTCAACAAAGCTGATCTCTCATTGTTCTGGGGACA  
 GTTAGCAGCGTAGTGGTCCACTGCAGCAAAAAGTTTGAATTCATTTTCTCAGGAAAAACCCAGCCAG  
 TCCCTCTCAGTGGAAACCTGGTTATGTCTGGGGCTCCATTAGCTGCTGGATTCCAGCCTCATAAAGGG  
 GTCTGGGATTATTCAGACCACAAATAGATATGGACAGTTACTATTCTTCATAGCACAACTGAGCAAGAC  
 TGCTTAGCACTGGAGGGGTCCGGACCCAGTATTATTTGGTTACTACTATGCAATCTGGCTGTAACATAA  
 GACTGACTGGAGCTCTCCCGTGCAGCTCGTAGCACAGAAGGTGAAGAGCCTGCTGTGGGCCAGGGCTT  
 CCCAGATTACGTGGCCCTTTTGGAAATCCCAGGCCAGGACATGCTGGACTGGGTGCCATCCACTTC  
 ATCACCCAGTCATTCAACAGGAAGGATTCCTGCCAGCTCCAGGGGCTTTGGTTATAGAAGTGAAGTGA  
 CTAATAACGGATCCCTGCTGAATCCACAGGCCAAAATAGTCAATGTAAGTCAAACTAATTTTCATCCTC  
 CTTTCTGAGGCCAACTCAGGAAATGAAAGGACGATTCTATTTCCACTGCGGTTACTTTTGTGGATGTG  
 TCTGCACCTGCAGAGGCAGGCTTCAGAGCTCCACCAGCCATCAATGCCAGGCTGCCCTTTAACTTCTCT  
 TCCCGTTTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209467 representing NM\_001082537  
 Red=Cloning site Green=Tags(s)

MRPRGLPPLLVLVLLGCWASVSAQTDATPAVTTEGLNSTEALATFGTFPSTRPPGTPRAPGPSSGPRPTP  
 VTDVAVLCVCDLSPAQCDINCCDPDCSSVDFSVFSACSVPVVTGDSQFCSQKAVIYSLNFTANPPQRVF  
 ELVDQINPISIFCIHITNYKPAISFINPEVPDENNFDTLMKTSDFTLNAESYVSFTTKLDIPTAAKYEYEG  
 VPLQTSDFSFLRFPSL TSSLCTDNNPAAFLVNQAVKCTRKINLEQCEEIEALSMAFYSSPEILRVPDSRK  
 KVPITVQSIVIQSLNKTLTRREDTDVLQPTLVNAGHFLCVNVVLEVKYSLTYTDAGEVTKADLSFVLGT  
 VSSVVVPLQQKFEIHFLQENTQPVPLSGNPGYVGLPLAAGFQPHKGSIGIQTNNRYGQLTILHSTTEQD  
 CLALEGVRTPVLFGYTMQSGCKLRLTGALPCQLVAQKVKSLWQGFDPYVAPFGNSQAQDMLDWVPIHF  
 ITQSFNRKDSQPLGALVIEVKWTKYGSLLNPQAKIVNVTANLISSSFPEANSIGNERTILISTAVTFVDV  
 SAPAEAGFRAPPAINARLPFNFFFPFV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001082537.3</a>
<b>RefSeq Size:</b>	1977 bp
<b>RefSeq ORF:</b>	1764 bp
<b>Locus ID:</b>	79600
<b>UniProt ID:</b>	<a href="#">Q2MV58</a>
<b>Cytogenetics:</b>	12q24.11
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	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]