

## Product datasheet for **MC219476**

### **Tctn1 (NM\_001039153) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tctn1 (NM_001039153) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tctn1
Synonyms:	G730031O11Rik; Tect1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219476 representing NM\_001039153  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTCGCGGGTCTCCCGCCGCTCCTGCTGGTGTCTCTAACTGCTACACCTCTTCGAGACCCAGG  
 TCATTGCCATCCCGGCTGCGGCCACCCAGCAGTGACGAAGGAGGATCTCAATCCACCAAGGCCACCCC  
 CACCACCTGCAGCCCTCCCTGTGCGCTAGGACCCGGGAATCCAGGGCACCGGAGCGCTCTGGCCCC  
 AGGCCTACCCCGGTACGGACGTTGCTGCTGTGTGTCTGCGACCTGCTCCGGCACAGTGTGATGTCA  
 ACTGCTGTTGCGACCCTGACTGCAGCCCTGCAGATTTACAGCATCTTCTCTGCCTGCTCAGTCCCAGTTGT  
 CACGGGTGACAGGCAGTTTTGTAGTCAGAAGGCAGCCTTCTACTCAATGAATTTGACAGCAGACCCACCT  
 CACCGTGACTTTAACTCATTGATCAGATCAATCCTTCCGTCTTCTGCATCCATATTTCAAACAAGC  
 CTGCAGTGTCTTTGCTAATCCAGAAGTGCCTGATGAAAAAATTTTACAGACTGATGCAGACATCAGG  
 TGGCTTTACACTGAGTGCAGTCCGCTGTTCCCTCCACAGCCGATCAGATGGCCACAGCCACTAAA  
 TACGAGTATGGAGCCCTCTGCAGACTGCAGGAGCATCTTCAGGGTCATTTCTGAAACTGCCTCGCCTC  
 TCACGTATCTCTGTGTGAGATCAGAACCCCGCAGCGTTCCTGGTGAGCCAGGCCTTCGAATGCAGCCG  
 AAGGGTGGACATAGAACAGTGTGAAGGAATGGAAGCCCTCAGCATGGCTCATTACAGCAGCCCTGCCATT  
 CTGAGGGTACCTAATTAATGACACAGGTCTCCATCAAGATCCAGTCTGTAATGTATCGGTCTCTGAATC  
 ACACACTGACGCGAGTTAGAAGGCCATGGTGTCTGCGGCCATCTCTGGTCAAGTGGGCAAGACAGACT  
 CTGCAGCAACGTTGTTCTCCAGGTGAAGTACAGTCTGCTGTACACAGCCACAGGCCAGATCCACGAAGCC  
 GGCCTCTCCCTCGTTCTGGGGACACTGAGCAGCGCTGTGAGTCTCCTGCAGCAGAAGTTTGTAGATCACT  
 TTATTCAGCATGGCACCAAGCCTGTTCCCTCTCAGCGGCAACCCTGGTTACAGGGTGGGACTCCCGCTGGC  
 TGCTGGCTTTACGCTCAGAAGGGATCTGGGATTATTACAGACAACGAACAGACAAGGCCAATTTACTATT  
 CTTCTGACAGCAGCCAGCAGGATTGCCTTGCCAGCGAGGGGCTTCGCACCCCTGTGCTATTTGGCTACA  
 ATGTGCAGTCTGGCTGTGAGCTCAGGTTGACAGGCACCATCCCTTGTGGGCTTCTGGCACAGAAGGTGCA  
 GGACCTGCTGAGAGGCCAGGCCCTCCCTGACTATGTGGCTGCCTTTGGGAACTCCCGGGCCAGGATGTG  
 CAGGACTGGGTGCCTGTGCACTTTGTCACTACTCCTCCAACATGAAGGGCTCTTGCCAGCTTCCGGTGG  
 CTTTGGCTATAGAAGTAAATGGACTAAGTATGGGTCCCTGCTGAACCCCGAGCCAGGATAGTAAATGT  
 CACTGCCAGCTCGTCTCAGTTCAGAGCCCTCCAGGGCTGAGAGGACCGTGGTCATTTCCACTGCA  
 GTGACATTTGTGGATGTGTCAGCCCTGCAGAGGCAGGCTTCGAGCCCCACCCACCATCAACGCCAGGC  
 TACCCTTCAGCTTCTTCCCGTTTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001039153
- Insert Size:** 1782 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001039153.3](#), [NP\\_001034242.2](#)

**RefSeq Size:** 4087 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 654470

**UniProt ID:** [Q8BZ64](#)

**Cytogenetics:** 5 F

**Gene Summary:** Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Regulator of Hedgehog (Hh), required for both activation and inhibition of the Hh pathway in the patterning of the neural tube. During neural tube development, it is required for formation of the most ventral cell types and for full Hh pathway activation. Functions in Hh signal transduction to fully activate the pathway in the presence of high Hh levels and to repress the pathway in the absence of Hh signals. Modulates Hh signal transduction downstream of SMO and RAB23.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the supported protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.