

Product datasheet for **MR218335**

Tctn1 (NM_001039153) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR218335 representing NM_001039153
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCGCGGGTCTCCCGCCGCTCCTGCTGGTGTCTCTAACTGCTACACCTCTTCGAGACCCAGG
 TCATTGCCATCCCGGCTGCGGCCACCCAGCAGTGACGAAGGAGGATCTCAATCCACCAAGGCCACCCC
 CACCACCTGCGAGCCCTCCCTGTGCGCTAGGACCCCGGAACTCCAGGGCACCGGAGCGCTCTGGCCCC
 AGGCTACCCCGGTCACGGACGTTGCTGCTGTGTGTCTGCGACCTGCTCCGGCACAGTGTGATGTCA
 ACTGCTGTTGCGACCCTGACTGCAGCCCTGCAGATTTACAGCATCTTCTGCTGCTCAGTCCCAGTTGT
 CACGGGTGACAGGCAGTTTTGTAGTCAGAAGGCAGCCTTCTACTCAATGAATTTGACAGCAGACCCACCT
 CACCGTGACTTTAACTCATTGATCAGATCAATCCTTCCGTCTTCTGCATCCATATTTCAAACAAGC
 CTGCAGTGTCTTTGCTAATCCAGAAGTGCCTGATGAAAAAATTTTACAGACTGATGCAGACATCAGG
 TGGCTTACACTGAGTGCAGATCCGCTGTTCCCTCCACAGCCGATCAGATGGCCACAGCCCACTAAA
 TACGAGTATGGAGCCCTCTGCAGACTGCAGGAGCATCTTCAGGGTCATTTCTGAAACTGCCTCGCCTC
 TCACGTATCTCTGTGTGAGATCAGAACCCCGCAGCGTTCCTGGTGAGCCAGGCCCTTCAATGCAGCCG
 AAGGGTGGACATAGAACAGTGTGAAGGAATGGAAGCCCTCAGCATGGCTCATTACAGCAGCCCTGCCATT
 CTGAGGGTACCTAATTAATGACACAGGTCTCCATCAAGATCCAGTCTGTAATGTATCGGTCTCTGAATC
 ACACACTGACGCGAGTTAGAAGGCCATGGTGTCTGCGGCCATCTCTGGTCAAGTGGGCAAGACAGACT
 CTGCAGCAACGTTGTTCTCCAGGTGAAGTACAGTCTGCTGTACACAGCCACAGGCCAGATCCACGAAGCC
 GGCTCTCCCTCGTTCTGGGGACACTGACAGCGCTGTGAGTCTCTGCAGCAGAAGTTGAGATCACT
 TTATTCAGCATGGCACCAGCCCTGTTCCCTCTCAGCGGCAACCCTGGTTACAGGGTGGGACTCCCGTGGC
 TGCTGGCTTTCAGCCTCAGAAGGGATCTGGGATTATTACAGACAACGAACAGACAAGGCCAATTTACTATT
 CTTCTGACAGCCAGCAGGATTGCCTTGCCAGCGAGGGGCTTCGACCCCTGTGCTATTTGGCTACA
 ATGTGCACTGCTGCTGCTCAGCTCAGGTTGACAGGCACCATCCCTTGTGGGCTTCTGGCACAGAAGGTGCA
 GGACCTGCTGAGAGGCCAGGCCCTCCCTGACTATGTGGCTGCCTTTGGAACTCCCGGGCCAGGATGTG
 CAGGACTGGGTGCTGTGCACTTTGTCACTACTCCTCAACATGAAGGGCTCTTGCAGCTTCCGGTGG
 CTTTGGCTATAGAAGTGAATGGACTAAGTATGGGTCCCTGCTGAACCCCGAGCCAGGATAGTAAATGT
 CACTGCCAGCTCGTCTCAGTTCAGAGCCCTCCAGGGCTGAGAGGACCGTGGTCATTTCCACTGCA
 GTGACATTTGTGGATGTGTCAGCCCTGCAGAGGCAGGCTCCGAGCCCCACCCACCATCAACGCCAGGC
 TACCCTCAGCTTCTTCCCGTTTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218335 representing NM_001039153
 Red=Cloning site Green=Tags(s)

MGSRGLPPLLLVLLNCYTSSSTQVIAIPAAATPAVTKEDLNSTKATPTTLQPSLSPRTPGTTPRAPERSGP
 RPTPVTDVAALCVCDLLPAQCDVNCCDPDCSPADFSIFSACSVPVVTDGRQFCSQKAIFYSMNLADPP
 HRDFKLIHQINPSVFCIHSNYKPALSFANPEVPDENNFDRMQTSGGFTLSAESAVPSTAASDGPQPTK
 YEYGAPLQTAGASSGSFLKLPSTLSSCADQNPAAFLVSQAFECSSRRVDIEQCEGMEALSMAHYSSPAI
 LRVNSMTQVSIKIQSVMYRSLNHTLTQLEGHGVLRPSLVSTGQDRLCSNVVLQVKYSLLYTATGQIHEA
 GLSLVLGTLSSAVSLLQKFEIHFIQHGTKPVPLSGNPGYRVGLPLAAGFQPQKSGSIIQTNRQGFQTI
 LRSTSQQDCLASEGLRTPVLFYGNVQSGCQLRLTGTIPCGLLAQKVQDRLRGQAFPDYVAAFNSRAQDV
 QDWVPVHFVITYSSNMKGSCQLPVALAIEVKWTKYGSLLNPQARI VNVTAQLVSVPEPLPGPERTVVI STA
 VTFVDVSAPAEAGFRAPPTINARLPFSFFFPFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9006_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039153

ORF Size: 1779 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_001039153.3](#), [NP_001034242.2](#)

RefSeq Size: 2068 bp

RefSeq ORF: 1782 bp

Locus ID: 654470

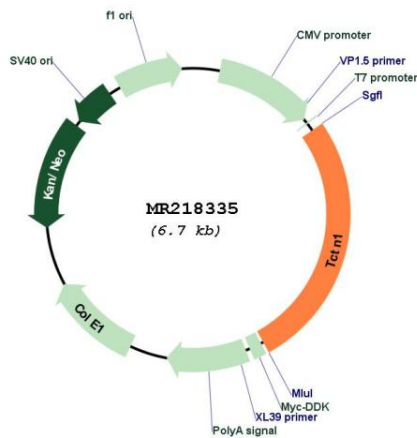
UniProt ID: [Q8BZ64](#)

Cytogenetics: 5 F

MW: 63.9 kDa

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]

Product images:



Circular map for MR218335