

Product datasheet for **RG226992**

TCTN2 (NM_001143850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCTN2 (NM_001143850) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCTN2
Synonyms:	C12orf38; JBTS24; MKS8; TECT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226992 representing NM_001143850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTTCCAGCCTCCGGCCGCTCTTCTTTGAGGCTTTTCTCTGTCAGGGCATCCTGAGGCTTCTGT
 GGGGGACCTGGCTTTCATCCCTCCTTTTATCCGAATGTCGGCCCTGCGGTGAGCGCGTCCCTGGTCGG
 AGACACCGAGGGTGTGACCGTGTCCCTGGCAGTGTGCAGGACGAGGCGGGAATATTGCCAATCCGACG
 TGTGGAGTGTGAACAATGAGACGGAAGACTGGAGCGTACTGTGATCCCGGTGCGGTGTTGGAAGTGA
 CAGTGAGGTGGAAGAGAGGTCTGGACTGGTGTCTCCAATGAGACAGATTCTTCTCAGAGTCCCCCTG
 TATCTCCAGACCCTTCTGGTTTCAGCATCTCATAATTCATCCTGTTGAGCACATCTACTCATTCAAGT
 GAAATTTATGCCAATCTTCTGACCCATAATGCCTCAGAGAACGTGACTGTCATTCTAACAGGTGT
 ATCAGCCCCTTGGCCCTGTCTTGTAAATTAACAGCTGGAGCCTGTGATGTTGCTGCTGTGACCA
 GGATGCTCATCAAATTAACAACGCTGTTGAGACGGTCTGCTTACCGCGGTGTTGGAGGAGACGTC
 AATCCTCCTTTTATGAGTCTGCTGCTGGGACGACGACAGTGGTGTCCCGATTGGTTCCCTTTT
 TGTGTGTGACGATCCCCCTTGCACACACCCCTTCTTGGTTACTTCTATCATGGTGTGTTCCCCCAA
 ACAGGACTCTTCTTTGAAGTATATGTGGATACTGACGCAAAAGACTTTGCAGACTTTGGTTACAACAA
 GGAGATCCCATATGACTGTAAGAAGGCATATTTTACTATCCGAGGTGTCCCTGGCTGGGAGTGTGTA
 TGCAGAACGCCCCAGTGGCATTCTTCAACAATTTTATGATGTTAAATGCGTTACTAATTTGAACTATA
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 ATCTATGAGGAAGCAACTGACCTAGACAAATTCATCACCATAACAGAACTCCTTTAAATAACGGATCAA
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 TGTAAAAATTTTAGGGCAGAGATTAATGCCACACAGAAAGGGATAATGACACAGAGATTTGTAGTAAAA
 TTTTAAAGCTATAATAGTGGTAATGAAGAAGATTATCTGGAAATCCAGGTTACCAACTGGCAAGCCTG
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 TCTGTGTACATCAGCAACTTTCAAACCCATTTTATTTGGAGAAAATGACTCTCTGGATGCTGTAGAA
 GTCGGGATTAATGAAAATGTAAGTACTCAGCTCAGGGAGAATGCTGTTGAAAGACTTGATTCAATAACAAG
 CGACTCACGTTGCAATGAGAGGCAACTCCGATTACGCTGATCTTAGTGATGGCTGGCTCGAAATAATACG
 TGATAGTCCCCGATCCAGGTGCAGACCCGCTGGCTAGCAGTGTGAACGGCATGTGCTGGATATTCT
 GCTCACCTGAGCATCCGATCCTCATCTCGGATGCTGGCGGGTGAAGGGATTACTCAGCAGGAGATAC
 TCGGTGTAGAGACAAGGTTCTCCTCAGTGAAGTGGCAGTACCAGTGTGGGCTTACCTGTGAGCACAGGC
 CGACCTTCTCCCTATCAGTGCATCCGTCCAGTTTATTAATAATCCTGCACAGTTACCCACCCCTGACA
 AGATCCAGATCAATTATACAGAGTATGACTGCAACAGAAATGAGGTGTGTTGGCCGAGCTTCTATATC
 CATGGACTCAGTATTATCAAGGGGAGCTGCATTCTCAGTGTGTTGCTAAGGGCTTACTGTTGCTGTTGTT
 CCTCACATTGGCCTTGTCTCTCAGCAACCCCTGGACCAGAATATGCAAAGCCTATAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226992 representing NM_001143850
 Red=Cloning site Green=Tags(s)

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MGFQPPAALLLRLFLQILRLLWGLAFIPPFIRMSGPAVSASLVGDTEGVTVSLAVLQDEAGILPIPT
CGVLNNETEDWSVTVIPGAVLEVTVRWKRGLDWCCSNETDSFSESPCILTLLVSASHNSSCSAHLIIQV
EIIYANSSLTHNAENVTVIPNQVYQPLGPCPCNLTAGACDVRCCCDQECSSNLTTLFRRSCFTGVFGGDV
NPPFDQLCSAGTTTRGVPDWFPFLLCVQSPPLANTPFLGYFYHGAVSPKQDSSFVEVYVDTDAKDFADFGYKQ
GDPIMTVKKAYFTIPQVSLAGQCMQNPVAFLNHFDVKCVTNLELYQERDGIINAKIKNVALGGIVTPKV
IYEEATDLDFITNTETPLNNGSTPRIVNVEEHYIFKWNNTISEINVKIFRAEINAHQKGMTQRFVVK
FLSYNSGNEEELSGNPGYQLGKPYRALNINRMNNVTTLHLWQSAGRGLCTSATFKPILFGENVLSGCLLE
VGINENCTQLRENAVERLDLSLIQATHVAMRGNSDYADLSDGWLEIIRVDAPDPGADPLASSVNGMCLDIP
AHL SIRILISDAGAVEGITQQEILGVETRFSSVNWQYQCGLTCEHKADLLPISASVQFIKIPAQLPHPLT
RFQINYTEYDCNRNEVCWPQLLYPWTQYYQGELHSQCVAKGLLLLLLFLTLALFLSNPWTRICKAYS
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001143850

ORF Size: 2088 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_001143850.3](#)

RefSeq Size: 2927 bp

RefSeq ORF: 2091 bp

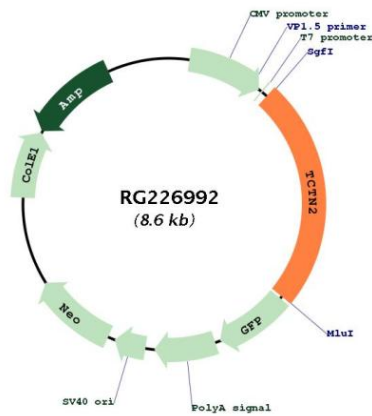
Locus ID: 79867

UniProt ID: [Q96GX1](#)

Cytogenetics: 12q24.31

Gene Summary: This gene encodes a type I membrane protein that belongs to the tectonic family. Studies in mice suggest that this protein may be involved in hedgehog signaling, and essential for ciliogenesis. Mutations in this gene are associated with Meckel syndrome type 8. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG226992