

Product datasheet for **RG213144**

TCTN3 (NM_015631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TCTN3
Synonyms:	C10orf61; JBTS18; OFD4; TECT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG213144 representing NM_015631
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCACCCACAGCTCGCGCTCTGCAAGTGTCTTTCTGGTGTCCCCGATGGCGTCCGGCCTCAGC
 CCTCTTCTCCCATCAGGGGAGTGGCCACGTCTTTGGAGCTGCAGCGAGGACGGATGGCGGAACCTC
 CCAGTCCCCCTCAGAGGCGACTGCAACTCGCCGCGCTGCCTGGACTCCCTACAGTGGTCCCTACTCTC
 GTGACTCCCTCGGCCCCGGAATAGGACTGTGGACCTCTTCCAGTCTTACCGATCTGTGTCTGTGACT
 TGACTCCTGGAGCCTGCGATATAAATTGCTGCTGCGACAGGAGTGTCTTCTCCATCCGAGGACAGT
 TTTCTCCTTCTGCTTCCAGGCGAGCTAAGGTCTCAAGCTGGGTTTGTGTAGACAACCTCTGTTATCTTC
 AGGAGTAATCCCCGTTTCTTCAAGAGTTTTCATGGATTCTAATGGAATCAGGCGAGTTTGTGTCCATG
 TGAACAACCTAACTTAACTATTTCCAGAAGCTTCAAAAGGTCAATGCAACCAACTCCAGGCCCTGGC
 TGCAGAGTTTGGAGGCGAATCATTCACTTCAACATTCCAACTCAATCACCACCATCTTTTACAGGGCT
 GGGGACCCCATCTTACTTACTTCCCAAGTGGTCTGTAATAAGCTTGCTGAGACAACCTGCAGGAGTTG
 GAGCTGGGGGACTCTGTCTGAAAGCAATCCTGCAGGTTTCTAGAGAGTAAAAGTACAACCTGCACTCG
 TTTTTCAAGAACCTGGCTAGTAGCTGTACCTTGGATTGAGCCCTCAATGCTGCCTCTTACTATACTTC
 ACAGTCTTAAAGGTTCCAAGAAGCATGACTGATCCACAGAATATGGAGTTCCAGGTTCTGTAATACTTA
 CCTCACAGGCTAATGCTCCTCTGTTGGCTGGAAACACTTGTGAGAATGTAGTTTCTCAGGTCAACCTATGA
 GATAGAGACCAATGGGACTTTTGAATCCAGAAAGTTTCTGTGAGTTTGGGACAAACCACTGACTGTT
 GAGCCAGGCGCTTCTTACAGCAACACTTCATCCTTCGCTTCAAGGCTTTTCAACAGAGCACAGTGTCTT
 CTCTCACCAGTCTAGAGTGGGAATCCTGGCTATATAGTTGGGAAGCCACTCTTGGCTCTGACTGATGA
 TATAAGTTACTCAATGACCCTCTTACAGAGCCAGGGTAATGGAAAGTTGCTCTGTTAAAAGACATGAAGTG
 CAGTTTGGAGTGAATGCAATATCTGGATGCAAGCTCAGGTTGAAGAAGGCAGACTGCAGCCACTTGCAGC
 AGGAGATTTATCAGACTCTTATGGAAGGCCAGACCAGAGATGTTGCCATCTTGGTAATGCTGACCC
 AGCCGAGAAAGGAGGTTGGACCAGGATCTCAACAGGCACTGCAGCATTTACAGTATAAACTGTACTTCC
 TGCTGTCTCATACCAAGTTTCCCTGGAGATCCAGGTATTGTGGGCATATGTAGGTCTCCTGTCCAACCCGC
 AAGCTCATGTATCAGGAGTTTCGATTCTATACAGTGCAGTCTATACAGGATTCTCAGCAAGTTACAGA
 AGTATCTTTGACAACCTCTGTGAACCTTTGTGGACATTACCCAGAAGCCACAGCCTCAAGGGGCCAACCC
 AAAATGGACTGGAAATGGCCATTGACTTCTTCCCTTCAAGTGGCATTGAGCAGAGGAGTATTCTCTC
 AAAATGCTCAGTCTCTCCATCCTTATCCTGTGCCTTACTACTTGGAGTTCTCAACCTAGAGACTAT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213144 representing NM_015631
 Red=Cloning site Green=Tags(s)

MRTPQLALLQVFFLVFPDGVPRPQSSSPSGAVPTSLELQRTDGGTLQSPSEATATRPVPLPTVVPTL
 VTPSAPGNRTVDLFPVLPICVCDLTPGACDINCCDRDCYLLHPRTVFSFCLPGSVRSSSWCVDNSVIF
 RSNPFPSPRVFMDNSGIRQFCVHVNNNLNYFQKLQKVNATNFQALAAEFGGESFTSTFTQSPPSFYRA
 GDPILTYPKWSVISLLRQPAVGAGGLCAESNPAGFLESKSTTCTRFFKNLASSCTLDSALNAASYNF
 TVLKVPRSMTPQNMEFQVPVILTSQANAPLLAGNTCQNVVSQVTFEITNGTFGIQKVSVSLGQTNLT
 EPGASLQQHFILRFRAFQQSTAASLTSPRSGNPGYIVGKPLALTDISYSMTLLQSQNGSGCSVKRHEV
 QFGVNAISGCKLRLLKKADCSHLQOEIYQTLHGRPRPEYVAIFGNADPAQKGGWTRILNRHCSISAINCTS
 CCLIPVSLEIQVLWAYVGLLSNPQAHVSGVRFLYQCQSIQDSQQVTEVSLTTLVNFVDITQKQPQPRGQP
 KMDWKWPFDFPFKVAFSRGVFSQKCSVSPILILCLLLGLVNLLETM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015631

ORF Size: 1821 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015631.6](#)

RefSeq Size: 2750 bp

RefSeq ORF: 1824 bp

Locus ID: 26123

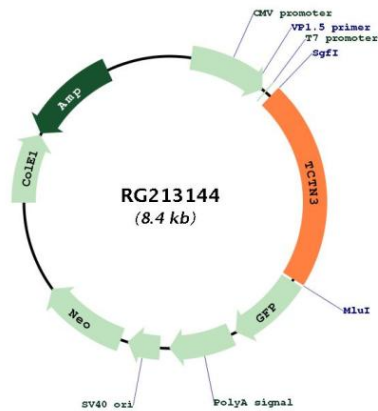
UniProt ID: [Q6NUS6](#)

Cytogenetics: 10q24.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the tectonic gene family which functions in Hedgehog signal transduction and development of the neural tube. Mutations in this gene have been associated with Orofaciodigital Syndrome IV and Joubert Syndrom 18. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2012]

Product images:



Circular map for RG213144