

Product datasheet for **SC116114**

TCP1 beta (CCT2) (NM_006431) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 beta (CCT2) (NM_006431) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCP1 beta
Synonyms:	99D8.1; CCT-beta; CCTB; HEL-S-100n; PRO1633; TCP-1-beta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006431 edited
TTCAGTCCGCTGGTCCCAGCACGAGCTGTGAGGGGATCACTTGTGTGCGGAACTCCTC
GGAACCATGGCGTCCCTTCCCTTGACCTGTTAACATCTTTAAGGCAGGAGCTGATGAA
GAGAGAGCAGAGACAGCTCGTCTGACTTCTTTTATTGGTGCCATCGCCATTGGAGACTTG
GTAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATCTTCTAAGCAGTGGACGAGAT
GCCTCTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAACATTGGTGTGACAAT
CCAGCAGCTAAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGTGGC
ACTACCTCTGTTACCGTTTTAGCAGCAGAATTATTAAGGGAAGCAGAATCTTTAATTGCA
AAAAAGATTTCATCCACAGACCATCATAGCGGGTTGGAGAGAAGCCACGAAGGCTGCAAGA
GAGGCGCTGTTGAGTTCTGCAGTTGATCATGGTCCGATGAAGTTAAATCCGTCAAGAT
TTAATGAATATTGCGGGCACAACATTATCCTCAAACTTCTTACTCATCACAAGACCAC
TTTACAAAGTTAGCTGTAGAAGCAGTTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCA
ATTCATATTATCAAGAAGCTAGGAGGAAGTTTGGCAGATTCTATTTAGATGAAGGCTTC
CTGTTGGATAAAAAAATTGGAGTAAATCAACAAAACGAATTGAAAATGCTAAAAATCTT
ATTGCAAATACTGGTATGGATACAGACAAAATAAAGATATTTGGTCCCGGGTAAGAGTT
GACTCTACGGCAAAGGTTGCAGAAATAGAACATGCGGAAAAGGAAAAAATGAAGGAGAAA
GTTGAACGTATTCTTAAGCATGGAATAAATTGCTTTATTAACAGGCAATTAATTTATAAT
TATCCTGAACAGCTCTTTGGTGCTGCTGGTGTGATGGCTATTGAGCATGCAGATTTTGCA
GGTGTGGAACGCCTAGCTCTTGTACAGGTGGTGAATTCCTCTACCTTTGATCACCCA
GAACTGGTGAAGCTTGAAGTTGCAAATTCGAGGAAGTCATGATTGGAGAAGACAAA
CTCATTCACTTTTCTGGGGTTGCCCTTGGTGAGGCTTGTACCATTGTTTTGCGTGGTGCC
AAACTGTAAAGGACTCTAGAACAGTTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCT
CATGCTGTGACACAGCTTGCCAATAGAACACCAGGCAAAGAAGCTGTTGCAATGGAGTCT
TATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTATGACAGT
GCAGACCTGGTGGCACAGCTCAGGGCTGCTCACAGTGAAGGCAATACCACTGCTGGATTG
GATATGAGGGAAGGCACCATTGGAGATATGGCTATCCTGGGTATAACAGAAAAGTTTTCAA
GTGAAGCGACAGGTTCTTCTGAGTGCAGCTGAAGCAGCAGAGGTGATTCTGCGTGTGGAC
AACATCATCAAAGCGGCACCCAGGAAACGTGCCCTGATCACCACCCTGTTAAGCATT
CCACGTGCTGTCGATCTTTGGACCAGTTTCTAGCAAAGTTGTGTTTGAAGATACTCTAT
TAAAGAAGACTGTGGAATCTGTTTATCGGTGCCATTATATCCTTAAGTTTGGATATTTA
GCTGACCTTCGCTTAAACATAGGTCTAATTTATTTGCCGTGCCATTTTCCATACAAATCA
GTTGATTTAAAAAAGTTCATTTCTCATACTGTGCATTAATAAAAAATTTGAACAGTTAA
AAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006431 unedited
 TATGAAATCACGCACTTCTATAGGNCGGCACGCGCAATTCGGCACGAGGTTTCAGTCCG
 CTGGTCCCGAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACTCCTCGGAACCATG
 GCGTCCCTTTCCCTTGCACCTGTTAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCA
 GAGACAGCTCGTCTGACTTCTTTTATTGGTGCCATCGCCATTGGAGACTTGGTAAAGAGC
 ACCTTGGGACCCAAAGGCATGGACAAAATCTTCTAAGCAGTGGACGAGATGCCTCTCTT
 ATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTTGACAATCCAGCAGCT
 AAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGATGGCACTACTCT
 GTTACCCTTTTAGCAGCAGAATTATTAAGGAAGCAGAATCTTTAATTGCAAAAAAGATT
 CATCCACAGACCATCATAGCGGGTTGGAGAGAAGCCACGAAGGCTGCAAGAGAGGCGCTG
 TTGAGTTCTGCAGTTGATCATGGTTCGATGAAGTTAAATTCGTCAAGATTTAATGAAT
 ATTGCGGGCACAACATTATCTCAAACTTCTTACTCATCAAAAGACCACTTTACAAAG
 TTAGCTGTAGAAGCAGTTCAGACTGAAAGGCTCTGGCAACCTGGAGGGCATTCAAT
 ATCAAGAAGCTAGGAGGAAGTTTGGCAGATTCTATTTAGATGAAGGCTTCTGTGGGA
 TAAAAATGGNAGTANATCAACCAAAACGAATTGAAAATGCTAAAATTCTTATTGCNAAT
 ACTGGGTATGGGATACANGACANATAAGNATTATTTGGGTCCCGNTTNNAGAGTTGACT
 CTACGGNCAAGGGTGCAANTAGACATGGCGGANAGGANAAATGAAGAGAAGTTTGACC
 T

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006431 unedited
 CCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTCAGGAAACAGC
 TATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAACTGTTCAAATT
 TTTATTTAATGCACAGTATGAGAAATGAACCTTTTTTAAATCAACTGATTGTATGGAAA
 ATGGCACGGCAAATAAATTAGACCTATGTTAAAGCGAAGGTCAGCTAAATATCCAACTT
 AAGGATATAATGGGCACCGATAAACAGATTCCACAGTCTTCTTTAATAGAGTATCTTTCA
 AACACAACCTTTGCTAGAACTGGTCCAAAGATCGACAGCACGTGGGAATGCTTACAGGG
 GTGGTGATCAGGGACACGTTTCTGGGTGCCGCTTTGATGATGTTGTCCACACGCAGAAT
 CACCTCTGCTGCTTCAGCTGCACTCAGAAGAACCTGTCGCTTCACTTGAAAACCTTCTGT
 TATACCCAGGATAGCCATATCTCAATGGTGCCTTCCCTCATATCCAATCCAGCAGTGGT
 ATTGCCCTCACTGTGAGCAGCCCTGAGCTGTGCCACCAGGTCTGCATGTCATAGCCTGC
 ATTTGTCAGCTATGATGGGNTGGGCACATTCTCAGTGCTTTAGCATAAGAAGCTATTGCAC
 AGCTTCTTGCCCTGGTGTCTATTGGGCAGCTGTGTCACAGCATGAGCCATCACATCTC
 AGAACAGCCTTCTATAAACTGTNCTAGAGTCCTTTTACAGTTTGGCAGACACAAGAG
 CATATGCCATGATCTTTCTGCTTATCTAAAATNGGGNGAGTGGCCACGCAAAACAATGTA
 CAAGCCTACAGGGCACCCAAAGGGANGAAGATTTGGCTCTCATCTGACTCTCGAAAAGTT
 GACTCAGCTACACCTTTGGGGGGACAAGGAAAGCATTACACTGGACGGACTAGGTTCC
 ACTGAAATTGCTGCTATACCTGACCACGCCCAAGAGTGAGGAAATATAATATTGCTGTA
 AAGACTATCATGTCTAAACCTACT

Restriction Sites:

NotI-NotI

ACCN:

NM_006431

Insert Size:

2100 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).

OTI Annotation:

The ORF of this clone has been fully sequenced and found to be a perfect match to the protein associated with NM_006431.2.

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:	<ol style="list-style-type: none">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:	<u>NM_006431.2</u> , <u>NP_006422.1</u>
RefSeq Size:	1962 bp
RefSeq ORF:	1608 bp
Locus ID:	10576
UniProt ID:	<u>P78371</u>
Cytogenetics:	12q15
Domains:	cpn60_TCP1
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>