

Product datasheet for **RC228929**

TCP1 eta (CCT7) (NM_001166285) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 eta (CCT7) (NM_001166285) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TCP1 eta
Synonyms:	CCTETA; CCTH; NIP7-1; TCP1ETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228929 representing NM_001166285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGCCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCAGCTTGTGA
 GTAACATCAGTGCCTGCCAGGTGATTGCTGAGGCTGTAAGAAGTACCCTGGGTCCCGTGGCATGGACAA
 GCTTATTGTAGATGGCAGAGGCAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGAT
 GTTGTCATCCTGCAGCAAAGACTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCA
 CCACCTCAGTGACCTTGTGGCTGCAGAGTTTCTGAAGCAGGTGAAACCCATGTGGAGGAAGTTTACA
 CCCCAGATCATCTCGAGCTTCCGCACAGCCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCT
 GTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGAAGCTGCTGAAAAGTGTCCATGACCGCTCTGA
 GCTCCAAGCTGATCTCCAGCAGAAAGCTTTCTTTGCTAAGATGGTGGTGGATGCAGTATGATGCTCGA
 TGATTTGCTGCAGCTTAAATGATTGGAATCAAGAAGGTACAGGGTGGAGCCCTCGAGGATTCTCAGCTG
 GTAGCTGGTGTTCATCAAGAAGACTTTCTCTTACGCTGGGTTTGAAATGCAACCCAAAAAGTACCACA
 ATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAAGACAATGCTGAGATAAGAGT
 CCACACAGTTGAGGATTACAGGCAATTGTTGATGCTGAGTGGAAACATTCTATGACAAGTTAGAGAAG
 ATCCATCATTCTGGAGCCAAAGTTGCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACTTTG
 CTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGG
 AGGCTCAATCCAGACCAGTGTGAATGCTCTGTGACGAGATGTGCTGGTTCGATGCCAGGTGTTTGAAGAG
 ACCCAGATTGGAGCGGAGAGGTACAATTTTTTACTGGCTGCCCAAGGCCAAGACATGCACCTTCATTC
 TCCGTGGCGCGCCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATCCATCATGATGCTCAG
 GAGGGCCATCAAGAATGATTCAAGTGGTGGCTGGTGGCGGGCCATTGAGATGGAACCTCTCCAAGTACCTG
 CGGGATTACTCAAGGACTATTCCAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGCCTTGAGAGA
 TTATCCCACGCCAGCTGTGTGACAATGCTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCG
 GCATGCCAGGGGGTACATGGTATGGAGTAGACATCAACAACGAGGACATTGCTGACAACCTTGAAGCT
 TTCGTGTGGGAGCCAGCTATGGTGGGATCAATGCGCTGACAGCAGCCTCTGAGGCTGCGTGCCTGATCG
 TGTCTGTAGATGAAACCATCAAGAACCCCGCTCGACTGTGGATGCTCCACAGCAGCAGGCCGGGGCCG
 TGGTCGTGGCCGCCCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228929 representing NM_001166285
 Red=Cloning site Green=Tags(s)

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRRTLGPGRMDKLIVDGRGKATISNDGATILKLLD
 VVHPAAKTLVDIAKSQDAEVDGTTSVTLAAEFKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIA
 VTYKKADKVEQRKLLLEKAMTALSSKLISQQKAFFAKMVVDVAVMLDDLQLKMIKIKVQGGALEDSQL
 VAGVAFKKTFSYAGFEMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIIVDAEWNILYDKLEK
 IHHSAGKVVLSKLPIGDVATQYFADRD MF CAGRVPEEDLKRTMMACGGSIQTSVNL SADVLGRCQVFEE
 TQIGGERYNFFTGCPKAKTCTFILRGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGAIEMELSKYL
 RDYSRTIPGKQQLLIGAYAKALEIIPRQLCDNAGFDATNILNKLRARHAQGGTWTYGVVDINNEDIADNFEA
 FVWEPAMVRINALTAASEAACLI VSVDETIKNPRSTVDAPTAAGRGRGRGRPH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001166285

ORF Size: 1632 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_001166285.1](#), [NP_001159757.1](#)

RefSeq Size: 2044 bp

RefSeq ORF: 1500 bp

Locus ID: 10574

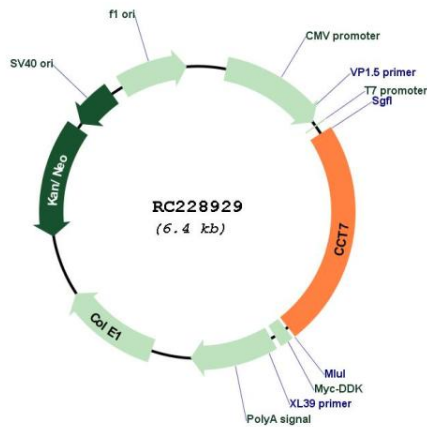
UniProt ID: [Q99832](#)

Cytogenetics: 2p13.2

MW: 59.4 kDa

Gene Summary: This gene encodes 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. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 6. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC228929