

Product datasheet for **RC217372**

TCP1 alpha (TCP1) (NM_001008897) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TCP1 alpha (TCP1) (NM_001008897) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | TCP1 alpha |
| Synonyms: | CCT-alpha; CCT1; CCTa; D6S230E; TCP-1-alpha |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC217372 representing NM_001008897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGGGCCTTTGTCCGTGTTCCGGTGACCCGAGCACTGGGAAACGATCCGCTCCAAAACGTTATGG
 CTGCAGCTTCGATTGCCAATATTGTA AAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAAAATTGGTGGA
 TGATATTGGTGATGTAACCATTACTAACGATGGTGAACCATCCTGAAGTTACTGGAGGTAGAATCCT
 GCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAGAAGTTGGAGATGGAACACTTTCAGTGG
 TTATTATTGCAGCAGAATCCTAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCACATCAGT
 TATTAGTGGCTATCGACTTGCTTGAAGGAAGCAGTGCCTTATATCAATGAAAACCTAATTGTTAACACA
 GATGAAGTGGGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGCTTCCAAAATCATTGGAATAA
 ATGGTGATTTCTTTGCTAACATGGTAGTAGATGCTGTACTTGGCTATTAATAACACAGACATAAGAGGCCA
 GCCACGCTATCCAGTCAACTCTGTTAATATTTGAAAAGCCATGGGAGAAGTCAAATGGAGAGTATGCTC
 ATCAGTGGCTATGCACTCAACTGTGTGGTGGGATCCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAA
 TTGCTTGCCCTTGACTTACGCTGCAAAAAACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCC
 TGAAAACTGGACCAAATTAGACAGAGAGAATCAGATATCACCAAGGAGAGAATTCAGAAGATCCTGGCA
 ACTGGTGCCAATGTTATTCTAACCACTGGTGGAATTGATGATATGTGTCTGAAGTATTTTGTGGAGGCTG
 GTGCTATGGCAGTTAGAAGATTTTAAAAAGGGACCTTAAACGCATTGCCAAAGCTTCTGGAGCAACTAT
 TCTGTCAACCTGGCCAAATTTGGAAGGTGAAGAACTTTGAAGCTGCAATGTTGGGACAGGCAGAAGAA
 GTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAGGCTCGTACGCTCGCAT
 CGATTATCTTACGTGGGCAAAATGATTTTCAATGTGTGATGAGATGGAGCGCTCTTTACATGCAATGCT
 TGTAGTGAAGAGAGTTTTGGAGTCAAAAATCTGTGGTCCCGGTGGGGGTGCTGTAGAAGCAGCCCTTCC
 ATATACCTTGAAAATATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCATTGCAGAGTTTGAAGAT
 CACTTCTGTTATTCCCAATACACTAGCAGTTAATGCTGCCAGGACTCCACAGATCTGGTTGCAAAATT
 AAGAGCTTTTCAATGAGGCCAGGTTAACCCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTTG
 AGCAATGGTAAACCTCGAGACAACAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTT
 TGAATTTGCAACAGAAGCTGCAATCACCATTCTCGAATTGATGATCTTATTAATTACATCCAGAAG
 TAAAGATGATAAATGGAAGTTATGAAGATGCTTCACTCTGGAGCCCTTAATGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217372 representing NM_001008897
 Red=Cloning site Green=Tags(s)

MEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSLGPVGLDKMLVDDIGDVTITNDGATILKLLVEHP
 AAKVLCCELADLQKEVGDGTTSVVIIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINENLIVNT
 DELGRDCLINAAKTSMSSKIIGINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESML
 ISGYALNCVVGSQMPKRIVNAKIACLDFSLQTKMKLGVQVVITDPEKLDQIRQRESKITKERIQKILA
 TGANVILTTGGIDDMCLKYFVEAGAMAVRRVLKRDLKRIAKASGATILSTLANLEGEETFEAAMLGQAE
 VVQERICDDELILIKNTKARTSASIIIRGANDFMCEMERSLHDALCVVKRVLESKSVVPGGAVEAALS
 IYLENYATSMGSREQLIAEFARSLVIPNTLAVNAAQDSTDLVAKLRAFHNQAQVNPENKLNKWIGLDL
 SNGKPRDNKQAGVFEPTIVKVKSLKFATEAAITILRIDDLIKLHPESKDDKHGSYEDAVHSGALND

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001008897

ORF Size: 1671 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

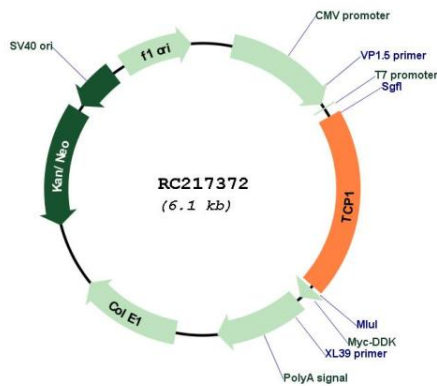
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001008897.1, NP_001008897.1
RefSeq Size: 2377 bp
RefSeq ORF: 1206 bp
Locus ID: 6950
Cytogenetics: 6q25.3
MW: 60.3 kDa

Gene Summary: 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. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. In addition, three pseudogenes that appear to be derived from this gene have been found. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC217372