

## Product datasheet for **RG228371**

### TCP1 eta (CCT7) (NM\_001166284) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 eta (CCT7) (NM_001166284) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCT7
Synonyms:	CCTETA; CCTH; NIP7-1; TCP1ETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228371 representing NM\_001166284  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAGATTTCTGAAGCAGGTGAAACCTT  
 ATGTGGAGGAAGGTTTACACCCAGATCATCATTTCGAGCTTCCGCACAGCCACCAGCTGGCAGTTAA  
 CAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGAAGCTGCTGGAAAAG  
 TGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCAGCAGAAAAGCTTTCTTTGCTAAGATGGTGGTGG  
 ATGCAGTGATGCTCGATGATTTGCTGCAGCTTAAAATGATTGGAATCAAGAAGGTACAGGGTGGAGC  
 CCTCGAGGATTCTCAGCTGGTAGCTGGTGTTCATTCAAGAAGACTTTCTCTTACGCTGGGTTTGAATG  
 CAACCCAAAAGTACCACAATCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAAG  
 ACAATGCTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGAACATTCT  
 CTATGACAAGTTAGAGAAGATCCATCATTCTGGAGCCAAAGTTGCTTGTCCAACTCCCATTGGGGAT  
 GTGGCCACCCAGTACTTTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGA  
 GGACAATGATGGCCTGTGGAGGCTCAATCCAGACCAGTGTGAATGCTCTGTGCAGCAGATGTGCTGGTCCG  
 ATGCCAGGTGTTTGAAGAGACCCAGATTGGAGGCGAGAGGTACAATTTTTTACTGGCTGCCCAAGGCC  
 AAGACATGCACCTTATTCTCCGTGGCGGCCGAGCAGTTTATGGAGGAGACAGAGCGTCCCTGCATG  
 ATGCCATCATGATCGTCAGGAGGGCCATCAAGAATGATTCAGTGGTGGCTGGTGGCGGGGCCATTGAGAT  
 GGAAGTCTCCAAGTACCTGCGGGATTACTCAAGGACTATCCAGGAAAACAGCAGCTGTTGATTGGGGCA  
 TATGCCAAGGCCTTGGAGATTATCCACGCCAGCTGTGTGACAATGCTGGCTTTGATGCCACAAACATTC  
 TCAACAAGCTGCGGGCTCGGCATGCCAGGGGGTACATGGTATGGAGTAGACATCAACAACGAGGACAT  
 TGCTGACAACTTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGGGATCAATGCGCTGACAGCAGCCTCT  
 GAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCGCTCGACTGTGGATGCTCCCA  
 CAGCAGCAGGCCGGGGCCGTGGTCTGGCCGCCCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228371 representing NM\_001166284  
 Red=Cloning site Green=Tags(s)

MMVGDGTTSVTLTAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVEQRKLEK  
 CAMTALSSKLISQQAFFAKMVVDVMMDDLLQLKMIGIKKVQGGALDSQLVAGVAFKKTFSYAGFEM  
 QPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVLKSLPIGD  
 VATQYFADRFMFCAGRVPEEDLKRTMMACGGSIQTSVNL SADVLGRCQVFEETQIGGERYNFFTGCPKA  
 KTCTFILRGGAEQFMEETERSLHDAIMI VRRRAIKNDSV VAGGGA IEMELSKYL RDYSRTIPGKQQLLIGA  
 YAKALEIIPRQLCDNAGFDATNINLKL RARHAQGGT WYGV DINNEDIADNFEAFVWEPAMVRINALTAAS  
 EAACLIVSVDETIKNPRSTVDAPTAAGRGRGRGRPH

**TRTRPLE** - GFP Tag - V

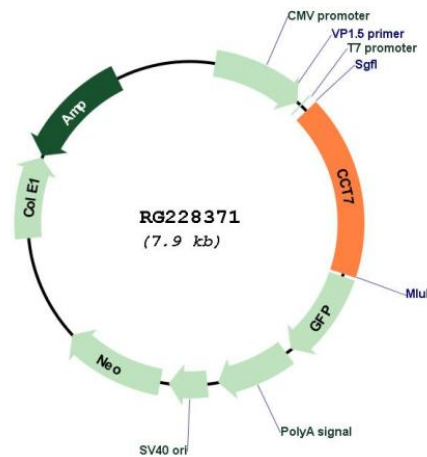
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001166284

ORF Size: 1368 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001166284.1</u> , <u>NP_001159756.1</u>
<b>RefSeq Size:</b>	1687 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	10574
<b>UniProt ID:</b>	<u>Q99832</u>
<b>Cytogenetics:</b>	2p13.2
<b>Gene Summary:</b>	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]