

## Product datasheet for **RG214480**

### TCP1 delta (CCT4) (NM\_006430) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 delta (CCT4) (NM_006430) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCP1 delta
Synonyms:	CCT-DELTA; Cctd; SRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214480 representing NM\_006430  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCGAGAATGTGGCACCCCGGAGCGGGCGACTGCCGGGGCTGCCGGCGGCCCGGGAAAGGCGCCT  
 ATCAGGACCGCGACAAGCCAGCCAGATCCGCTTCAGCAACATTTCCGCCGCAAAGCGTTGCTGATGC  
 TATTAGAACAAGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGAAAAAGGTGATGTAACCATT  
 ACAAATGATGGTCTACCATTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGC  
 TGTCTAAGGCTCAAGATATAGAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTT  
 AGATTCTGTACCAAGCTTCTTCAGAAAGGGATTCACTCAACCATCATTCTGAGTCATTCCAGAAGGCC  
 CTGAAAAAGGCGATTGAAATCTGACTGACATGTCTCGACCTGTGGAAGTGAAGTACAGAGAAAACTTTGT  
 TAAATAGTGCAACCACTCACTGAACTCAAAGGTGGTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAG  
 TGTAATGCAGTGATGAAAGTATTGACCCAGCCACAGCCACCAGTGTAGATCTTAGAGATATTAATAA  
 GTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAAAGGGCTGGTTCTACCCAAAAAGTGT  
 CAAATTCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTCAGTTTTGCTTATCTGCTCCCAA  
 AACAGACATGGATAATCAATAGTGGTTTCTGACTATGCCAGATGGACCGAGTGTGCGAGAAGAGAGA  
 GCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAAACAGGATGTAATGTCCTTCTCATACAGAAATCTA  
 TTCTAAGAGATGCTCTTAGTGATCTTGCATTACACTTTCTGAATAAAATGAAGATCATGGTGATTAAGGA  
 TATTGAAAGAGAAGACATTGAATTCATTGTAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA  
 TTTACTGCTGACATGCTGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAAGTGT  
 TCAAGATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTGCTGGTTCTAACAAAGTGGT  
 GATTGAAGAAGCTGAGCGCTCCATTCATGATGCCCTATGTGTTATTCGTTGTTTAGTGAAGAAGAGGGCT  
 CTTATTGCAGGAGGTGGTCTCCAGAAATAGAGTTGGCCCTACGATTAAGTGAATATTCACGAACACTGA  
 GTGGTATGGAATCCTACTGCGTTCTGCTTTTGCAGATGCTATGGAGGTCAATCCATCTACACTAGCTGA  
 AAATGCCGGCCTGAATCCATTTCTACAGTAACAGAACTAAGAAACCGGCATGCCAGGGAGAAAAAAGT  
 GCAGGCATTAATGTCCGAAAGGGTGGTATTTCCAACATTTGGAGGAACTGGTTGTCCAGCCTCTGTTGG  
 TATCAGTCAGTCTGACTCTTGAACAGTAACTGTTCCGAGCATTCTGAAAAATAGATGATGTGGTAA  
 CACTCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214480 representing NM\_006430  
 Red=Cloning site Green=Tags(s)

MPENVAPRSGATAGAAGGRGKGYQDRDKPAQIRFSNISAACAVADAIRTSLGPKGMDKMIQDGKGDVTI  
 TNDGATILKQMQLHPAARMLVELSKAQDIEAGDGTSSVIIAGSLLDSTKLLQKGIHPTIISSEFQKA  
 LEKGIEILTDMSRPVELSDRETLNSATSLNSKVVSQYSSLLSPMSVNAVVKVIDPATATSVDLRDIKI  
 VKKLGITDDCELVGLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYQMMDRVLREER  
 AYILNLVKQIKKTGCNVLLIQKSILRDALSDLALHFLNKMIMVIKDIEREDIEFICKTIGTKPVAHIDQ  
 FTADMLGSAELAEVNLNGSGKLLKITGCASPGKTVTIVVRSNKLVEEAERSIHDALCVIRCLVKKRA  
 LIAGGGAPEIELALRLTEYSRTLSGMESYCVRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEK  
 AGINVRKGGISNILEELVVQPLLVSVSALTLATETVRSILKIDDDVNVNR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_006430

**ORF Size:** 1617 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\\_006430.4](#)

**RefSeq Size:** 2349 bp

**RefSeq ORF:** 1620 bp

**Locus ID:** 10575

**UniProt ID:** [P50991](#)

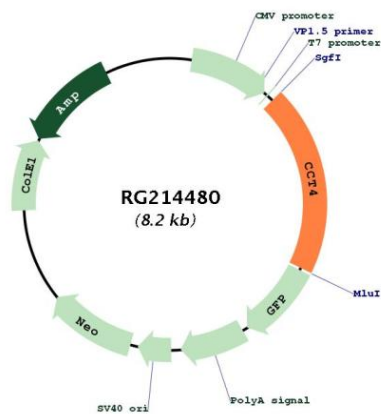
**Cytogenetics:** 2p15

**Domains:** cpn60\_TCP1

**Protein Families:** Druggable Genome

**Gene Summary:** The chaperonin containing TCP1 (MIM 186980) complex (CCT), also called the TCP1 ring complex, consists of 2 back-to-back rings, each containing 8 unique but homologous subunits, such as CCT4. CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP-driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin (see MIM 102560) and tubulin (see MIM 191130), as well as alpha-transducin (MIM 139330) (Won et al., 1998 [PubMed 9819444]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RG214480