

## Product datasheet for **RG238443**

### TCP1 theta (CCT8) (NM\_001282909) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 theta (CCT8) (NM_001282909) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TCP1 theta
Synonyms:	C21orf112; Cctq; D21S246; PRED71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238443 representing NM_001282909. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCAAAATGGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCATATGCAAGACGAAGAA
GTTGGAGATGGCACAACCTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGAAGAAGCTTCTG
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CTTCTAAATTTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGT
ACCTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTA
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AAAGATGCAAAAATAGCAGTGTACTCTTGTCTTTTATGGCATGATAACAGAAAATAAGGGAACAGTG
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GCTGAGGCATTTGAAGCTATTCGCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATC
TCTAAACTTTATGCAGTACATCAAGAAGGAAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCT
GCTGTAAGGACATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAATC
GCTACTAATGCTGCAGTCACTGTACTTAGAGTGGATCAGATCATCATGGCAAACACAGCTGGTGGGCC
AAGCCTCAAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238443  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDQMVQHPAAKMIVMASHMQEQEVGDGTFVLVFAGALLEAEELLRIGLSVSEVIEGYEIACRKAHEI  
 LPNLVCCSAKNLRDIDEVSSLLRTSISMSKQYGNEVFLAKLIAQACVSI FPD SGHFNVDNIRVCKILGSG  
 ISSSSVLHGMVFKKETEGDVT SVKDAKIAVYSCPFDMITETKGTVLIKTAEELMNF SKGEENLMDAQV  
 KAIADTGANVVVTGGKVADMALHYANKYNIML VRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD  
 VYLSEVGDQVVVFKHEKEDGAI STIVLRGSTDNL MDDIERAVDDGVNTFKVLTRDKRLVPGGGATEIE  
 LAKQITSYGETCPGLEQYAIKKFAEAFEIPRALAENSGVKANEVISKL YAVHQEGNKVGLDIEAEVP  
 AVKDMLEAGILD TYLGKYWAIK LATNAAVTVLRVDQIIMAKPAGGPKPPSGKKDWDQND  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282909

**ORF Size:** 1425 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.

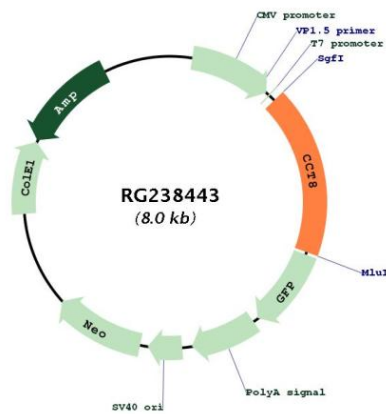
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**RefSeq:** [NM\\_001282909.1](#), [NP\\_001269838.1](#)

RefSeq Size: 1927 bp  
 RefSeq ORF: 1428 bp  
 Locus ID: 10694  
 UniProt ID: [P50990](#)  
 Cytogenetics: 21q21.3  
 Protein Families: Druggable Genome  
 MW: 52 kDa

**Gene Summary:** This gene encodes the theta subunit of the CCT chaperonin, which is abundant in the eukaryotic cytosol and may be involved in the transport and assembly of newly synthesized proteins. Alternative splicing results in multiple transcript variants of this gene. A pseudogene related to this gene is located on chromosome 1. [provided by RefSeq, Sep 2013]

### Product images:



Circular map for RG238443