

## Product datasheet for **RC238443**

### 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:	Myc-DDK
Symbol:	CCT8
Synonyms:	C21orf112; Cctq; D21S246; PRED71
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238443 representing NM\_001282909  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCAAAATGGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCATATGCAAGAGCAAGAAG  
 TTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGAAGAACTTCTGAG  
 GATTGGCCTGTCAGTTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGAGATTCTT  
 CCTAATTTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTTCGTACCT  
 CCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTAT  
 TTTTCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAAAATTCGGGCTCTGGTATCAGT  
 TCCTCTCAGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATG  
 CAAAAATAGCAGTGTACTCTTGCCTTTTATGATGGCATGATAACAGAACTAAGGGAACAGTGTGATAAA  
 GACTGCTGAAGAATTGATGAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATT  
 GCTGATACTGGTGCAAAATGTCGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAATA  
 AATATAATATCATGTTAGTGAGGCTAAACTCAAAATGGGATCTCCGAAGACTTTGTAAAACCTGTTGGTGC  
 TACAGCTCTTCTAGATTGACACCTCCTGCTCCTTGAAGAAATGGGACACTGTGACAGTGTTCACCTCTCA  
 GAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGAAAAGGAAGATGGCGCCATTTCTACCATAGTAC  
 TTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGCAGTAGACGATGGTGTAAATACTTTCAA  
 AGTTCTTACAAGGATAAACGCTTGTACCCGGAGGTGGAGCAACAGAAATTGAATTAGCCAAACAGATC  
 ACATCATATGGAGAGACATGCTCCTGGACTTGAACAGTATGCTATTAAGAAGTTTGTGAGGCATTTGAAG  
 CTATTCCTCCGCGCACTGGCAGAAAACCTGGAGTTAAGGCAATGAAGTAACTCTAAACTTTATGCAGT  
 ACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGACATGCTG  
 GAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGTCA  
 CTGTACTTAGAGTGGATCAGATCATCATGGCAAAACAGCTGGTGGGCCCAAGCCTCAAGTGGGAAGAA  
 AGACTGGGATGATGACCAAAATGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238443 representing NM\_001282909  
 Red=Cloning site Green=Tags(s)

MDQMVQHPAAKMIVMASHMQEQEVGDGTFVLFVAGALLELAEELLRIGLSVSEVIEGYEIACRKAHEIL  
 PNLVCCSAKNLRDIDEVSSLLRTSISMSKQYGNVFLAKLIAQACVSIFFDSGHFNVDNIRVCKILGSGIS  
 SSSVLHGMVFKKETEGDVTSVKDAKIAVYSCPPDGMITETKGTVLIKTAEELMNFSGKEENLMDAQVKAI  
 ADTGANVVVTGGKVADMALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLS  
 EVGDTQVVVFKHEKEDGAISTIVLRGSTDNLMDIERAVDDGVNTFKVLTRDKRLVPGGGATEIELAKQI  
 TSYGETCPGLEQYAIKKFAEAFEAIPLRAAENSGVKANEVISKLYAVHQEGNKNVGLDIEAEVPAVKDML  
 EAGILDTYLGKYWAIKLATNAAVTVLRVDQIIMAKPAGGPKPPSGKKDWDDQND

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

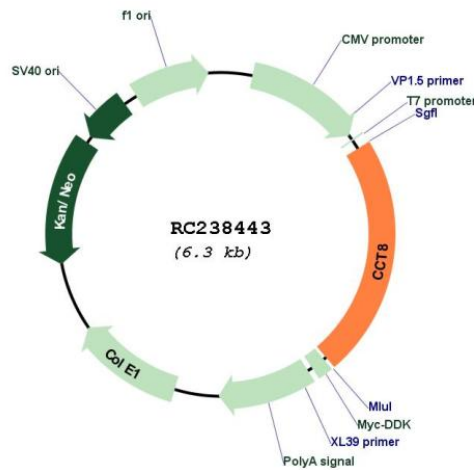
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).

**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\\_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]