

Product datasheet for **RG238736**

TCP1 theta (CCT8) (NM_001282907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 theta (CCT8) (NM_001282907) 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)



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ORF Nucleotide Sequence:

>RG238736 representing NM_001282907.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGAAGGAGCTTGCCCAAACC
ACTCGTACAGCATATGGACCAAATGGAATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTG
ACAAACGATGCAGCAACTATTTTAAGAGAAGTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAAATG
GCTTCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAAAACCTTTGTTCTGGTATTTGCTGGAGCTCTC
CTGGAATTAGCTGAAGAAGCTTCTGAGGATTGGCCTGTCAGTTTTCAGAGGTCATAGAAGGTTATGAAATA
GCCTGCAGAAAAGCTCATGAGATTCTTCTAATTTGGTATGTTGTTCTGCAAAAAACCTTCGAGATATT
GATGAAGTCTCATCTCTACTTCGTACCTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCC
AAGCTTATTGCTCAGGCATGCGTATCTATTTTCTGATTCCGGCCATTTCAATGTTGATAACATCAGA
GTTTGTAAAATTCTGGGCTCTGGTATCAGTTCTTTCAGTATTGCATGGCATGGTTTTTAAAGAGGAA
ACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGTGTACTTTGTCCTTTTGTGGCATG
ATAACAGAAACTAAGGGAACAGTGTGATAAAGACTGCTGAAGAATTGATGAATTTTAGTAAGGGAGAA
GAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAAATGTCGTAGTAACAGGTGGC
AAAGTGGCAGACATGGCTCTTATTATGCAAAATAAATAAATATCATGTTAGTGAGGCTAAACTCAAAA
TGGGATCTCCGAAGACTTTGTAAAACCTGTTGGTGTACAGCTCTTCTAGATTGACACCTCCTGTCTT
GAAGAAATGGGACACTGTGACAGTGTTCCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAAG
CATGAAAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGAC
ATAGAAAAGGCGAGTAGACGATGGTGTAACTTTCAAAGTCTTACAAGGATAAACGCTTTGTACCC
GGAGGTGGAGCAACAGAAATTAATTAGCCAAACAGATCACATCATATGGAGAGACATGCTCCTGGACTT
GAACAGTATGCTATTAAGAAGTTTGTGAGGCATTTGAAGCTATTCCCGCGCACTGGCAGAAAACCTCT
GGAGTTAAGGCCAATGAAGTAACTCTCTAACTTTATGCAGTACATCAAGAAGGAAATAAAAAACGTTGGA
TTAGATATTGAGGCTGAAGTCCCTGCTGTAAGGACATGCTGGAAGCTGGTATTCTAGATACTTACCTG
GGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGTCACTGTACTTAGAGTGGATCAGATCATC
ATGGCAAAACCAGCTGGTGGGCCAAGCCTCCAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238736
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MHFSGLEEAVYRNIQACKELAQTTRTAYGPNGMNKMVINHLEKLFVTNDAATILRELEVQHPAAKMIVM
ASHMQEQEVGDGTFNVLVFAGALLELAPELLRIGLSVSEVIEGYEACRKAHEILPNLVCCSAKNLRI
DEVSSLLRTSISMSKQYGNVFLAKLIAQACVSIFFDSGHFNVDNIRVCKILGSGISSSVLHGMVFKE
TEGDVTSVKDAKIAVYSCPFDMITETKGTVLIKTAEELMNFSGEENLMDAQVKAIAADTGANVVVTGG
KVADMALHYANKYINMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLSEVGDQVVVFK
HEKEDGAISTIVLRGSTDNLMDIERAVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGL
EQYAIKKFAEAFEAIPRALAENSGVKANEVSKLYAVHQEGNKNVGLDIEAEVPAVKDMLLEAGILDITYL
GKYWAIKLATNAAVTVLRVDQIIMAKPAGGPKPPSGKDWDDQND
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282907

ORF Size: 1587 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_001282907.1](#), [NP_001269836.1](#)

RefSeq Size: 2315 bp

RefSeq ORF: 1590 bp

Locus ID: 10694

UniProt ID: [P50990](#)

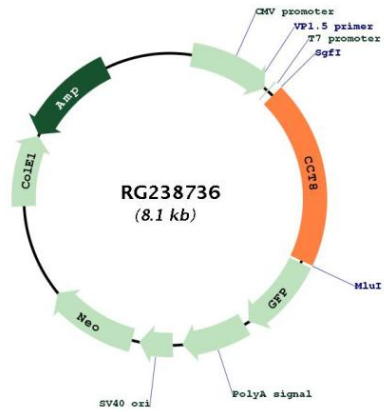
Cytogenetics: 21q21.3

Protein Families: Druggable Genome

MW: 58.1 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 RG238736