

Product datasheet for **RC238736**

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:	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:

>RC238736 representing NM_001282907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACCTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGAAGGAGCTTGCCCAAACCA
 CTCGTACAGCATATGGACCAAATGGAATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTGAC
 AAACGATGCAGCAACTATTTTAAGAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCT
 TCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGG
 AATTAGCTGAAGAAGCTTCTGAGGATTGGCTGTCAAGTTTCAGAGGTCATAGAAGTTATGAAATAGCCTG
 CAGAAAAGCTCATGAGATTCTTCTAATTTGGTATGTTGTTCTGCAAAAAACCTTCGAGATATTGATGAA
 GTCTCATCTCTACTTCGTACCTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTA
 TTGCTCAGGCATGCGTATCTATTTTCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAA
 AATTCTGGGCTCTGGTATCAGTTCTCTCAGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGT
 GATGTAACATCTGTCAAAGATGCAAAAATAGCAGTGTACTCTTGTCTTTTATGATGGCATGATAACAGAAA
 CTAAGGGAACAGTGTTGATAAAGACTGTGAAGAATTGATGAATTTTGTAGTAAAGGAGAAGAAAACCTCAT
 GGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAAATGTCGTAGTAACAGGTGGCAAAGTGGCAGAC
 ATGGCTCTTCATTATGCAAAATAATATAATATCATGTTAGTGAGGCTAAACTCAAATGGGATCTCCGAA
 GACTTTGTAAAAGTGTGGTGCTACAGCTCTTCTAGATTGACACCTCCTGTCTTGAAGAAATGGGACA
 CTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGAAAAGGAAGAT
 GCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAAGGCGAGTAG
 ACGATGGTGTAAATACTTTCAAAGTCTTACAAGGGATAAACGTCTTGTACCCGGAGGTGGAGCAACAGA
 AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAG
 AAGTTTGTGAGGCATTTGAAGCTATTTCCCGCGCACTGGCAGAAAACCTGGAGTTAAGGCCAATGAAG
 TAATCTCTAAACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGT
 CCCTGCTGTAAGGACATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAAATTGGGCTATCAAA
 CTCGCTACTAATGCTGCAGTCACTGTACTTAGAGTGGATCAGATCATCATGGCAAACAGCTGGTGGGC
 CCAAGCCTCAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238736 representing NM_001282907
 Red=Cloning site Green=Tags(s)

MHFSGLEEAVYRNIQACKELAQTTRTAYGPNMNMKVINHLEKLFVTNDAATILRELEVQHHPAAKMIVMA
 SHMQEQEVGDGTFNVLVFAGALLEAEELLRIGLSVSEVIEGYE IACRKAHEILPNLVCCSAKNLRDIDE
 VSSLLRTS IMSKQY GNEVFLAKLIAQACVSI FPD SGHFVNDNIRVCKILGSGISSSVLHGMVFKKETEG
 DVT SVKDAKIAVYSCPFDMITETKGTVLIKTAEELMNF SKGEENLMDAQVKA IADTGANVVVTGGKVD
 MALHYANKYINIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD SYLSEVGDQV VVFKHEKED
 GAISTIVLRGSTDNLMDDIERAVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIK
 KFAEAFEAI PRALAENSGVKANEVISKLYAVHQEGNKVGLDIEAEVPAVKDML EAGILD TYLGKYWAIK
 LATNAAVTVLRVDQI IMAK PAGGPKPPSGKKD WDDDDQND

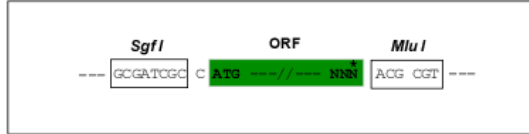
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

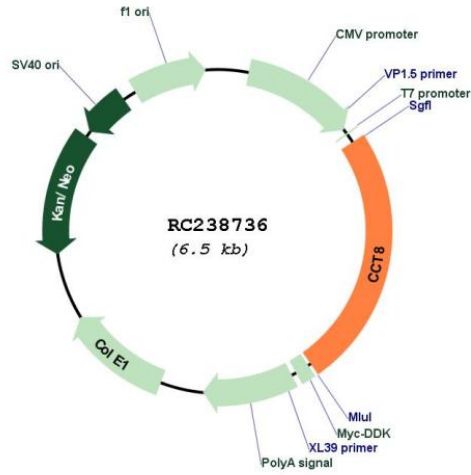
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]