

Product datasheet for **RG223866**

TCP1 eta (CCT7) (NM_001009570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCP1 eta (CCT7) (NM_001009570) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCT7
Synonyms:	CCTETA; CCTH; NIP7-1; TCP1ETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223866 representing NM_001009570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGATTCTCAGCTGGTAGCTGGTGTGCATTCAAGAAGACTTTCTCTTACGCTGGGTTTGAATGC
AACCCAAAAAGTACCACAATCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGA
CAATGCTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAAACATTCTC
TATGACAAGTTAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGCCAACTCCCCATTGGGGATG
TGGCCACCCAGTACTTTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAG
GACAATGATGGCCTGTGGAGGCTCAATCCAGACCAGTGTGAATGCTCTGTGAGCAGATGTGCTGGGTCTGA
TGCCAGGTGTTTGAAGAGACCCAGATTGGAGGCGAGAGGTACAATTTTTTACTGGCTGCCCAAGGCCA
AGACATGCACCTTCATTCTCCGTGGCGGCCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGA
TGCCATCATGATCGTCAGGAGGGCCATCAAGAATGATTCAGTGGTGGCTGGTGGCGGGGCCATTGAGATG
GAACTCTCAAGTACCTGCGGGATTACTCAAGGACTATTCAGGAAAACAGCAGCTGTTGATTGGGGCAT
ATGCCAAGGCCTTGAGATTATCCACGCCAGCTGTGTGACAATGCTGGCTTTGATGCCACAACATTCT
CAACAAGCTGCGGGCTCGCATGCCAGGGGGTACATGGTATGGAGTAGACATCAACAACGAGGACATT
GCTGACAACCTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGGGATCAATGCGCTGACAGCAGCCTCTG
AGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCGCTCGACTGTGGATGCTCCAC
AGCAGCAGGCCGGGGCCGTGGTGTGGCCGCCCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223866 representing NM_001009570
 Red=Cloning site Green=Tags(s)

MMDSQLVAGVAFKKTFSYAGFEMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIIVDAEWNIL
 YDKLEKIHHSAGKVVLSKLPIGDVATQYFADDMFCAGRVPEEDLKRTMMACGGSIQTSVNLADVLGR
 CQVFEETQIGGERYNFFTGCPKAKTCTFILRGGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGAIEM
 ELSKYLRDYSRTIPGKQQLLIGAYAKALEIIPRQLCDNAGFDATNILNKLRARHAQGGTWYGVDDINNEI
 ADNFEAFVWEPAMVRINALTAASEAACLIYSVDETIKNPRSTVDAPTAAGRGRGRGRPH

TRTRPLE - GFP Tag - V

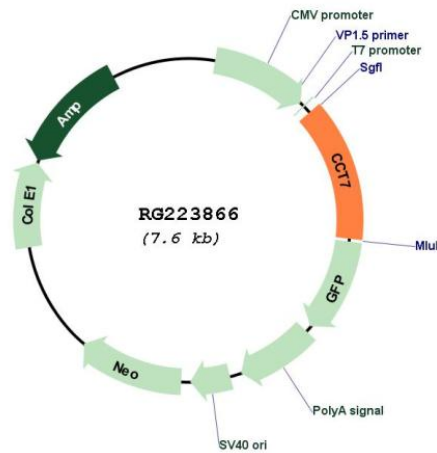
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001009570

ORF Size: 1017 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_001009570.2 , NP_001009570.1
RefSeq Size:	1280 bp
RefSeq ORF:	1020 bp
Locus ID:	10574
UniProt ID:	Q99832
Cytogenetics:	2p13.2
Gene Summary:	This gene encodes a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 6. [provided by RefSeq, Oct 2009]