

Product datasheet for **RC205267**

CCT6B (NM_006584) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCT6B (NM_006584) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCT6B
Synonyms:	CCT-zeta-2; CCTZ-2; Cctz2; TCP-1-zeta-2; TSA303
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205267 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTGCGATAAAGGCCGTCAACTCCAAGGCTGAGGTGGCGCGGCCAGGCAGCTTTGGCTGTCAATA
 TATGCGCGCGCCGAGGGCTGCAGGATGTCTGCGGACCACTTGGGTCTAAAGGCACCATGAAAATGCT
 TGCTTCTGGTGCAGGTGACATCAAACCTACCAAAGATGGCAATGTACTGCTCGATGAGATGCAAAATCA
 CATCCAACAGCTTCCTTGATAGCAAAAGTAGCAACAGCTCAGGATGACGTACAGGAGATGGTACTACTT
 CAAATGTTCTAATTATTGGAGAGTTATTAACAAGCTGACCTGTACATTTCTGAGGGCTGCACCCCTAG
 AATAATAGCTGAAGGATTTGAAGCTGCAAGATAAAAGCACTTGAAGTTTGGAGGAAGTAAAGTGACA
 AAGGAGATGAAAAGAAAATCCTCTTAGATGTAGCTAGAACATCATTACAACTAAAGTTATGCTGAAC
 TGGCTGATGTCTTAACAGAGGTTGTGGTGGATTCTGTTTTGGCTGTTAGAAGACCAGGTTACCCTATTGA
 TCTCTTCATGGTAGAAATAATGGAGATGAAGCATAAATTAGGAACAGATACAAAGTTGATCCAAGGATTA
 GTTTTGGATCATGGTGCCCGTCATCCAGATATGAAGAAGCGAGTAGAAGATGCATTTATCCTTATTTGCA
 ACGTTTCACTGGAATATGAAAAACAGAGGTGAACCTCTGGTTTCTTTATAAGACTGCAGAAGAGAAAGA
 GAAATTGGTAAAAGCTGAAAGAAAATTTATTGAAGATAGAGTACAAAAATAATAGACCTGAAGGACAAA
 GTCTGTGCTCAGTCAAATAAAGGATTTGTCTCATTAATCAAAAGGGAATTGATCCATTTTCTTAGATT
 CTCTTGCAAAACATGGAATAGTAGCTCTTCGAGAGCAAAAAGAAATATGGAAGACTCTCTTTGC
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 TATGAGTATACATTAGGTGAAGAAAAGTCACTTTTATTGAGGAGTGTGTTAACCTTGTCTGTTACCT
 TGTTGGTTAAAGGACCAAATAAGCATACTCTCACACAAGTCAAGGATGCCATAAGAGATGGACTTCGTGC
 TATCAAAAATGCCATTGAAGATGGTTGTATGGTTCTGGAGCTGGTGAATTGAAGTGGCAATGGCTGAA
 GCTCTTGTACATATAAGAACAGTATAAAAGGAAGAGCTCGTCTTGGAGTCCAAGCTTTTGTGATGCCT
 TACTCATTATTTCCAAGTTCTTGTCTCAGAATGCTGGTTATGACCCACAGGAAACATTAGTAAAAGTTCA
 GGCTGAGCATGTCGAGTCAAAACAATTGTGGCGTAGATTTGAATACAGGTGAGCCAATGGTAGCAGCA
 GATGCAGGAGTTTGGGATAATTATTGTGTAACAAAAACAATTCTCACTCTTGCACAGTGATTGCCACCA
 ACATTCTCTGGTTGATGAAATTATGCGAGCTGGGATGTCTTCTCTCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205267 protein sequence
 Red=Cloning site Green=Tags(s)

MAAIKAVNSKAEVARAQAALAVNICAARGLQDVLRTNLGPKGTMKMLASGAGDIKLTGDGNVLLDEMQUIQ
 HPTASLIAKVATAQDDVTGDGTTSNVLIIGELLKQADLYISEGLHPRIIAEGFEAAKIKALEVLEEYKVT
 KEMKRKILLDVARTSLQTKVHAELADVLTEVVVDSVLAVRRPGYPIDLFMVEIMEMKHLGTDTKLIQGL
 VLDHGARHPDMKKRVEDAFILICNVSLYEKTEVNSGFFYKTAEEKEKLKKAERKFIEDRVQKIIDLKDK
 VCAQSNKGFVVINQKGIDPFLDSLAKHGIVALRRAKRRNMERLSLACGMAVNSFEDLTVDCLGHAGLV
 YEYTLGEEKFTFIEECVNPCSVTLLVKGPNKHTLTQVKDAIRDGLRAIKNAIEDGCMVPGAGAEVAMAE
 ALVTYKNSIKGRARLGVQAFADALLIIPKVL AQNAGYDPQETLVKVQAEHVESKQLVGVDLNTGEPMVAA
 DAGVWDNYCVKKQLLHSTVIATNILLVDEIMRAGMSSLK

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

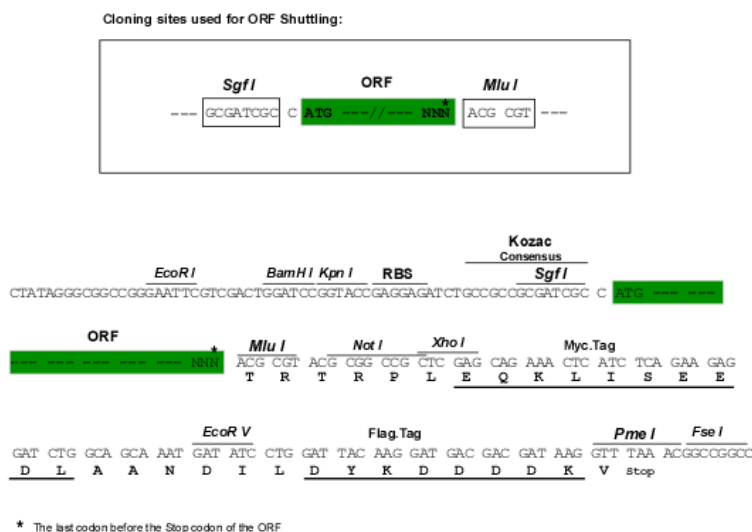
Chromatograms:

https://cdn.origene.com/chromatograms/mk6535_a01.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 006584

ORF Size: 1590 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006584.4](#)

RefSeq Size: 1898 bp

RefSeq ORF: 1593 bp

Locus ID: 10693

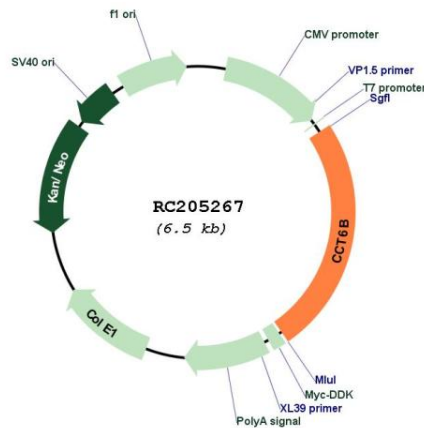
UniProt ID: [Q92526](#)

Cytogenetics: 17q12

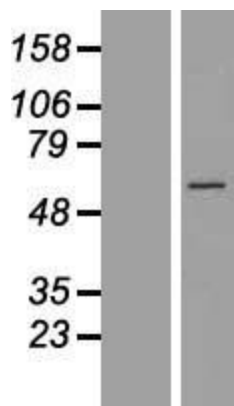
MW: 57.8 kDa

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. [provided by RefSeq, Feb 2015]

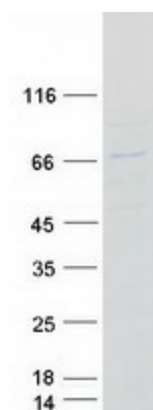
Product images:



Circular map for RC205267



Western blot validation of overexpression lysate (Cat# [LY416545]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CCT6B protein (Cat# [TP305267]). The protein was produced from HEK293T cells transfected with CCT6B cDNA clone (Cat# RC205267) using MegaTran 2.0 (Cat# [TT210002]).