

## Product datasheet for **RC203563**

### TBCC (NM\_003192) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBCC (NM\_003192) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TBCC  
**Synonyms:** CFC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC203563 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGTCCGTCAGTTGCTCCGCTGCTGCTGTCAGGACCGGAGACATGGAGTCCCAGCGGGACCTGAGCC  
TGGTGCCTGAGCGGCTTCAGAGACGCGAACAAGAACGGCAGCTGGAAGTTGAAAGCGGAAACAAAAGCG  
GCAGAACCAGGAGGTAGAGAAGGAGAACAGCCACTTTTTTCGTCGCCACCTTTGCTCGGGAGCGAGCGGCC  
GTGGAAGAGCTTCTGGAGCGCGGAGTCGGTCGAGCGGCTGGAGGAGCGGCCCTCTCGGCTCCAGGGC  
TGCAGAACTAATCAACGACTCAGTTTTTTTCTAGCCGCTTACGACCTGCGGCAGGGACAAGAGGCGCT  
GGCGCGGCTGCAGCGGCCCTTGCCGAGCGCGCCGGGGCTGCAGCCAAGAAGCGTTTTCGCTTTCAAG  
ACCCGGGAAAGGATGCTGCTTCGCTACCAAAGTAGACGCGGCTCCTGGCATCCCCCGCAGTTGAAA  
GCATACAGGACTCCCCGCTGCCAAGAAGGCGGAAGGAGACCTCGGCCCCAGCTGGGTCTGCGGTTTCTC  
CAACCTGGAGTCCCAAGTCTTGAGAAGAGAGCCAGCGAGTTGCACCAGCGCGAGTTCTTTTGACCGAA  
CTGAGCAACTGCACGGTCAGACTTTATGAAAATCCCAACACCTGCGGCTAACCAAGGCCACAGCTGCA  
AGCTGCTCTGCGGTCCGGTGTCTACCTGTGTTTTCTGGAGGACTGCAGTGACTGCGTGTGTCAGTGGC  
CTGCCAACAGCTCCGCATACACAGTACGAAAGACACCCGCATCTCTCTGCAGGTGACCAGCAGGGCCATC  
GTGGAGGACTGCAGTGGGATCCAGTTCGCCCTTACACCTGGAGTACCCGGAGATCGACAAGGACTTCG  
AGAGCTCTGGTTTAGATAGGAGCAAAAATAACTGGAACGATGTTGACGATTTTAACTGGCTGGCCCGGA  
TATGGCTCCCCAACTGGAGTATTCTTCTGAAGAGGAGCGAAATATCCAGTGGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203563 protein sequence  
Red=Cloning site Green=Tags(s)

MESVSCSAAAVRTGDMESQRDL SLVPERLQRREQERQLEVERRKQKRQNEVEKENS HFFVATFARERAA  
 VEELLERAESVERLEEASRLQGLQKL INDSVFFLAAYDLRQGQEARLQAALAERRRGLQPKKRF AFK  
 TRGKDAASSTKVDAAPGIPPAVESIQDSPLPKKAEGDLGPSWVCGFSNLESQVLEKRASELHQRDVLLTE  
 LSNCTVRLYGNPNTLRLTKAHSCKLLCGPVSTSVFLEDCSDCVLAVACQQLRIHSTKDRIFLQVTSRAI  
 VEDCSGIQFAPYTWSYPEIDKDFESSGLDRSKNNWVDVDFNWLARDMASPNWSILPEEERNIQWD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6429\\_b01.zip](https://cdn.origene.com/chromatograms/mk6429_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003192

**ORF Size:** 1038 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\\_003192.3](#)

**RefSeq Size:** 1675 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 6903

**UniProt ID:** [Q15814](#)

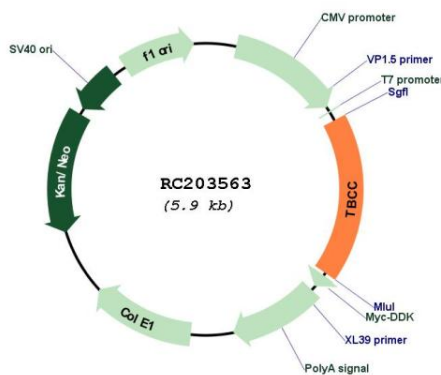
**Cytogenetics:** 6p21.1

**Domains:** CARP

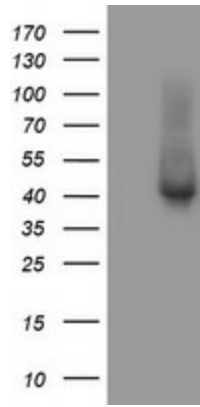
**MW:** 39.2 kDa

**Gene Summary:** Cofactor C is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/beta-tubulin complex; interaction with cofactor C then causes the release of beta-tubulin polypeptides that are committed to the native state. [provided by RefSeq, Jul 2008]

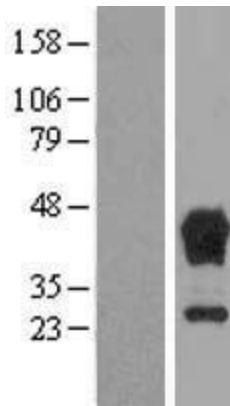
### Product images:



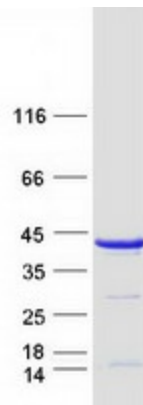
Circular map for RC203563



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TBCC (Cat# RC203563, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TBCC (Cat# [TA504735]). Positive lysates [LY418844] (100ug) and [LC418844] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY418844]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203563 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBCC protein (Cat# [TP303563]). The protein was produced from HEK293T cells transfected with TBCC cDNA clone (Cat# RC203563) using MegaTran 2.0 (Cat# [TT210002]).