

Product datasheet for **MR203058**

Tbcb (NM_025548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbcb (NM_025548) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbcb
Synonyms:	2410007D12Rik; AU041393; CG22; Ckap1; CKAPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203058 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGACGGGGATATCGGCGCCACCGTGATGGTTTTTCATCAGCAGCTCCCTCAACAGTTCCGTT
CGGAGAAGCGATACAGTCGTAGCCTCACCATCGCAGAGTTCAAGTGAACTGGAGCTGGTGGTGGGCAG
CCCTGCTCCTGCATGGAAGTGGAGCTATATGGAGCAGACGACAAGTTCTACAGCAAGTTGGATCAGGAG
GATGCACTGCTGGGCTCCTATCCTGTGGATGACGGCTGTCGCATCCATGTCATTGACCACAGTGGCGTCC
GGCTCGGAGAGTATGAGGATGTGTCCAAAGTGGAGAAATACGAGATCTCACCAGAAGCTTACGAACGGAG
GCAGAACACAGTTCGATCCTTCATGAAACGCAGCAAGCTAGGCCGTACAATGAAGAACTCCGGGCCAG
CAAGAGGCAGAGGCTGCCAGCGTCTCAGTGAGGAGAAGGCCAAGCCAGTGCCATCTCTGTGGGGAGCC
GTTGTGAGGTGCGGGCACCCGACCACTCCCTTCGCAGGGGCACTGTCATGTATGTAGGACTCACAGATTT
CAAGCCAGGCTACTGGGTTGGTGTCCGATATGATGAGCCGTTAGGAAAAACGATGGCAGTGTGAATGGG
AAACGCTACTTTGAATGCCAGGCCAAGTATGGTGCCTTTGTAAGCCATCAGCTGTCACCGTAGGAGATT
TCCAGAGGAGGACTACGGGTTGGACGAGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



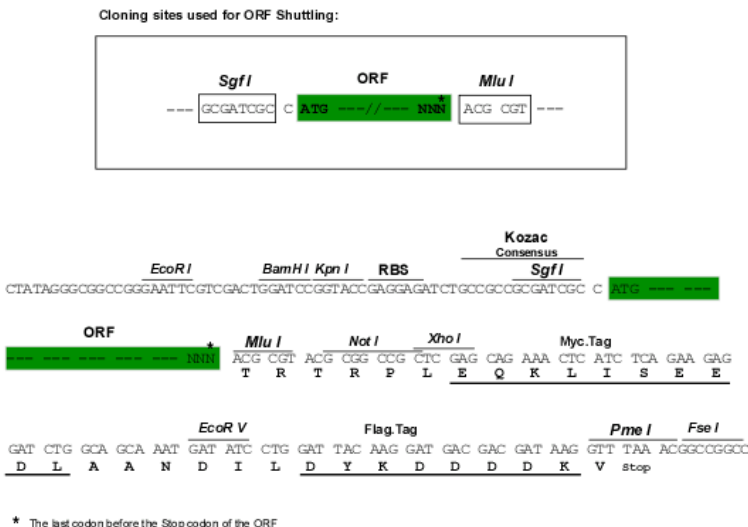
Protein Sequence: >MR203058 protein sequence
 Red=Cloning site Green=Tags(s)

MEVTGISAPTVMVFISSSLNSFRSEKRYRSRLTIAEFKCKLELVGSPASCMELELYGADDFYSKLDQE
 DALLGSYPVDDGCRIVHDHSGVRLGEYEDVSKVEKYEISPEAYERRQNTVRSFMKRSLGPYNEELRAQ
 QEAEAAQRLSEEKAQASAI SVGSRCEVRAPDHSLRRGTVMYVGLTDFKPGYWVGVRYPDEPLGKNDGVSNG
 KRYFECQAKYGAFVKPSAVTVGDFPEEDYGLDEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025548

ORF Size: 735 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.

RefSeq: [NM_025548.4](#)

RefSeq Size: 1173 bp

RefSeq ORF: 735 bp

Locus ID: 66411

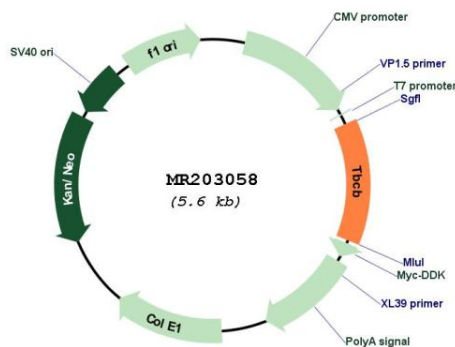
UniProt ID: [Q9D1E6](#)

Cytogenetics: 7 B1

MW: 27.4 kDa

Gene Summary: Binds to alpha-tubulin folding intermediates after their interaction with cytosolic chaperonin in the pathway leading from newly synthesized tubulin to properly folded heterodimer (By similarity). Involved in regulation of tubulin heterodimer dissociation (PubMed:17184771). May function as a negative regulator of axonal growth (PubMed:17217416).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203058