

## Product datasheet for **MG203058**

### Tbcb (NM\_025548) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tbcb (NM_025548) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbcb
Synonyms:	2410007D12Rik; AU041393; CG22; Ckap1; CKAPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203058 representing NM_025548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGGTGACGGGGATATCGGCGCCACCGTGATGGTTTTTCATCAGCAGCTCCCTCAACAGCTTCCGTT  
CGGAGAAGCGATACAGTCGTAGCCTCACCATCGCAGAGTTCAAGTGAACTGGAGCTGGTGGTGGGCAG  
CCCTGCTTCTGCATGGAAGTGGAGCTATATGGAGCAGACGACAAGTTCTACAGCAAGTTGGATCAGGAG  
GATGCACTGCTGGGCTCCTATCCTGTGGATGACGGCTGTCGCATCCATGTCATTGACCACAGTGGCGTCC  
GGCTCGGAGAGTATGAGGATGTGTCCAAAGTGGAGAAATACGAGATCTCACCAGAAGCTTACGAACGGAG  
GCAGAACACAGTTCGATCCTTCATGAAACGCAGCAAGCTAGGCCGTACAATGAAGAACTCCGGGCCAG  
CAAGAGGCAGAGGCTGCCAGCGTCTCAGTGAGGAGAAGGCCAAGCCAGTGCCATCTCTGTGGGGAGCC  
GTTGTGAGGTGCGGGCACCCGACCACTCCCTTCGCAGGGGCACTGTCATGTATGTAGGACTCACAGATTT  
CAAGCCAGGCTACTGGGTTGGTGTCCGATATGATGAGCCGTTAGGAAAAACGATGGCAGTGTGAATGGG  
AAACGCTACTTTGAATGCCAGGCCAAGTATGGTGCCTTTGTAAGCCATCAGCTGTCACCGTAGGAGATT  
TCCAGAGGAGGACTACGGTTGGACGAGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203058 representing NM\_025548  
Red=Cloning site Green=Tags(s)

MEVTGISAPTVMVFISSSLNSFRSEKRYRSRLTIAEFKCKLELVGSPASCMELELYGADDFYSKLDQE  
 DALLGSYPVDDGCRIVHDHSGVRLGEYEDVSKVEKYEISPEAYERRQNTVRSFMKRSKLGPNYNEELRAQ  
 QEAEAAQRLSEEKAQASAI SVGSRCEVRAPDHSLRRGTVMYVGLTDFKPGYWVGVRYPDEPLGKNDGVSNG  
 KRYFECQAKYGAFVKPSAVTVGDFPEEDYGLDEM

TRTRPLE - GFP Tag - V

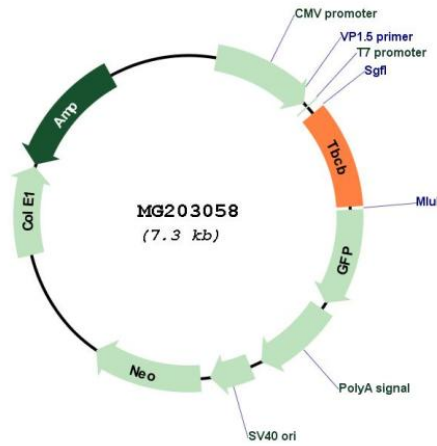
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_025548

**ORF Size:** 732 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_025548.4</a>
<b>RefSeq Size:</b>	923 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	66411
<b>UniProt ID:</b>	<a href="#">Q9D1E6</a>
<b>Cytogenetics:</b>	7 B1
<b>Gene Summary:</b>	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]