

## Product datasheet for **MG207096**

### **Tubb4b (NM\_146116) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tubb4b (NM_146116) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubb4b
Synonyms:	4930542G03Rik; Tubb2c; Tubb2c1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207096 representing NM\_146116  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGGGAGATCGTGCACCTGCAGGCTGGCAGTGCGCCAACAGATTGGCGCCAAGTTCTGGGAGGTAA  
 TCAGCGACGAGCATGGCATTGATCCCACTGGCACTTACCACGGAGATAGCGACCTCCAGCTGGAGCGCAT  
 CAACGTGTACTACAACGAAGCCACCGGTGGCAAGTATGTGCCCGCGCCGTGCTCGTGGACTTGGAGCCC  
 GGCACCATGGACTCGGTGCGTTCAGGGCCCTTCGGGCAGATCTTCAGACCTGATAACTTCGTCCTTTGGTC  
 AGAGTGGGGCTGGGAACAACCTGGGCCAAGGGGCACTACACAGAAGGTGCAGAGCTGGTTGACTCGGTGTT  
 GGACGTTGTGAGAAAGGAAGCTGAGAGCTGTGACTGCCTGCAGGGCTTCAGCTGACCCACTCCCTGGGT  
 GGGGGACTGGGTCTGGGATGGTACCCTCCTTATCAGCAAGTCCGGGAGGAGTACCCAGACAGAATCA  
 TGAACACCTTCAGTGTGTACCTCCCCAAGGTGTCGGACACAGTGGTTGAGCCCTACAATGCCACCT  
 TTCAGTCCACAGCTGGTTGAAAACACAGATGAGACCTATTGTATTGATAATGAAGCACTTTATGACATC  
 TGCTTCAGAACCTAAAGCTGACCACACCCACTTACGGTGACCTGAACCATCTAGTGTCCGCCACCATGA  
 GTGGGGTAACCACTTGCCTGCGATTCCCTGGCCAGCTAAATGCTGACCTGCGGAAACTGGCTGTAATAT  
 GGTGCCCTTCCCTCGCTGCACTTCTTCATGCCTGGCTTTGCCCCCTTGACCAGCCGGGGCAGCCAGCAG  
 TACCGTGCCCTGACAGTTCCTGAGCTCACCCAGCAGATGTTTGTATGCCAAGAACATGATGGCTGCCTGTG  
 ATCCAAGACATGGGCGCTACTTGACTGTGGCTGCCGTGTTTCAGGGGCCGATGTCTATGAAGGAGGTGGA  
 CGAACAGATGCTTAATGTCCAAAACAAGAACAGCAGCTACTTTGTTGAGTGGATCCCCAACAAATGTGAAG  
 ACAGCTGTCTGTGACATTCCACCTCGGGCCTGAAAATGTCCGCCACCTCATTGGCAACAGCACCCTA  
 TTCAGGAGCTGTTCAAACGCATCTCAGAGCAGTTCACAGCCATGTTCCGACGCAAGGCCCTCCTACACTG  
 GTACACGGGTGAAGGCATGGATGAGATGGAGTTCACTGAGGCTGAGAGCAACATGAACGACCTGGTGCC  
 GAGTACCAGCAGTACCAGGACGCTACAGCTGAGGAAGAGGGAGAGTTTGAGGAGGAGCTGAGGAGGAGG  
 TGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207096 representing NM\_146116  
 Red=Cloning site Green=Tags(s)

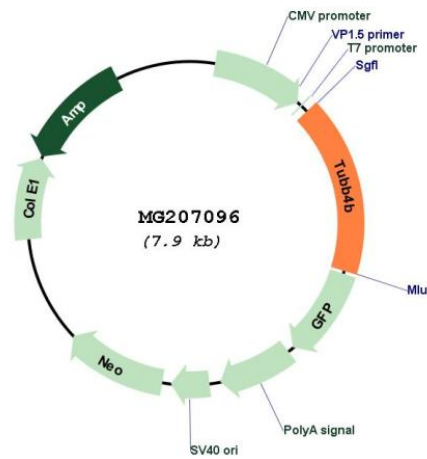
MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLERINVYYNEATGGKYVPRAVLVDLEP  
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESDCDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVSDDTVEPYNATLSVHQLVENTDETYCIDNEALYDI  
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMPFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQMFDANKMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK  
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATAEEEEGEFEFEAEVEVA

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_146116

**ORF Size:** 1335 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.

<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_146116.2</a>
<b>RefSeq Size:</b>	1561 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	227613
<b>UniProt ID:</b>	<a href="#">P68372</a>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]