

## Product datasheet for **MG207205**

### **Tuba1b (NM\_011654) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tuba1b (NM_011654) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tuba1b
Synonyms:	Tuba2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207205 representing NM\_011654  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTCCAGATCGGCAATGCCTGCTGGGAGCTCT  
 ACTGCCTGGAACATGGCATCCAGCCTGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGA  
 CTCTTCAACACCTTCTTCAGTGAGACAGGAGCTGGCAAGCATGTGCCCCGGGCAGTGTTTCGTAGACCTG  
 GAACCCACGGTCAATCGATGAAGTTCGCACCGGCACCTACCGCCAGCTCTTCCATCCTGAGCAGCTCATCA  
 CAGGCAAGGAGGATGCTGCCAATAACTATGCCCGTGGCCACTACACCATTGGCAAGGAGATCATTGACCT  
 TGTCTGGACAGGATTCGCAAGCTGGCTGACCAGTGCACAGGTCTCCAGGGCTTCTTGGTTTTCCACAGC  
 TTTGGTGGGGAACTGGCTCTGGCTTACCTCCCTGCTGATGGAGCGGCTCTCTGTGGATTACGAAAGA  
 AGTCCAAGCTGGAGTTCTCCATTTACCCAGCCCCCAGGTTTCCACTGCTGTGGTTGAGCCCTACAATTC  
 CATCTCACCCACACCACCCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTAT  
 GACATCTGTCGTAGAAACCTCGACATTGAGCGCCAACCTACACCAACCTTAACCGCCTTATTAGCCAGA  
 TTGTGTCTTCCATCACTGCTTCCCTCAGATTTGATGGGGCCCTGAATGTTGATCTGACAGAATCCAGAC  
 CAACCTGGTACCCTACCCTCGCATCCACTTCCCTCTGGCCACTTATGCCCTGTCATCTCTGCTGAGAAA  
 GCCTACCATGAGCAGCTTCTGTAGCAGAGATCAACATGCCTGCTTTGAGCCAGCCAACCATGAGTGA  
 AATGTGACCCCTCGCCATGGTAAATACATGGCTTGTGCTGCTATACCGTGGTGTGTTCCCAAAGA  
 TGTCAATGCTGCCATTGCCACCAATCAAGACCAAGCGCAGCATCCAGTTTGTAGACTGGTGGCCACTGGC  
 TTCAAGTTGGCATTAAATACCAGCCTCCACTGTGGTACCCGGTGGTACCTGGCCAAGGTGCAGAGAG  
 CTGTGTGCATGCTGAGCAACACCACGCCATTGCTGAGGCCTGGGCTCGCCTAGATCACAAGTTTGATCT  
 GATGATGCCAAGCGTGCCTTTGTGCACTGGTATGTGGGTGAGGGCATGGAGGAGGTGAGTTCTCTGAG  
 GCCCGTGAAGGACATGGCTGCCCTAGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTGAAGGCGAGG  
 GGGAGGAAGAAGGAGAGGAGTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207205 representing NM\_011654  
 Red=Cloning site Green=Tags(s)

MRECISIHVQAGVQIGNACWEL YCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL  
 EPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHS  
 FGGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY  
 DICRRNLDIERPTYTNLNRLLISQIVSSITASLRFDGALNVDL TEFQTNLVPYPRIFPLATYAPVISA  
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRSIQFVDWCPTG  
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDL MYAKRAFVHWYVGEEMEEGEFSE  
 AREDMAALEKDYEEVGVDSVEGEGEEEGEEY

**TRTRPLE** - GFP Tag - V

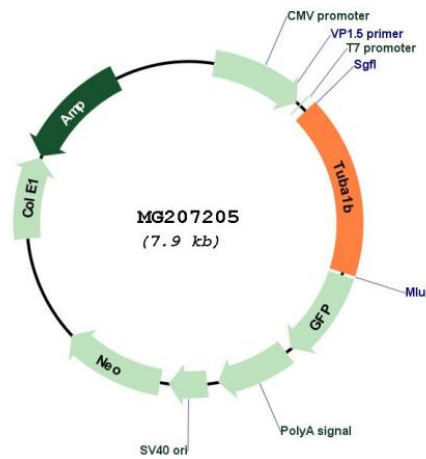
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_011654

ORF Size: 1353 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>	<u><a href="#">NM_011654.2</a></u> , <u><a href="#">NP_035784.1</a></u>
<b>RefSeq Size:</b>	1747 bp
<b>RefSeq ORF:</b>	1356 bp
<b>Locus ID:</b>	22143
<b>UniProt ID:</b>	<u><a href="#">P05213</a></u>
<b>Cytogenetics:</b>	15 F1
<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]