

## Product datasheet for **MR207096**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tubb4b (NM_146116) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb4b
Synonyms:	4930542G03Rik; Tubb2c; Tubb2c1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207096 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGGAGATCGTGCACCTGCAGGCTGGGCAAGTTCGCGCCAAGTTCTGGGAGGTAA  
 TCAGCGACGAGCATGGCATTGATCCCACCTGGCACTTACCACGGAGATAGCGACCTCCAGCTGGAGCGCAT  
 CAACGTGTACTACAACGAAGCCACCGGTGGCAAGTATGTGCCCGCGCCGTGCTCGTGGACTTGGAGCCC  
 GGCACCATGGACTCGGTGCGTTCAGGGCCCTTCGGGCAGATCTTCAGACCTGATAACTTCGTCCTTTGGTC  
 AGAGTGGGGCTGGGAACAACCTGGGCCAAGGGGCACTACACAGAAGGTGCAGAGCTGGTTGACTCGGTGTT  
 GGACGTTGTGAGAAAGGAAGCTGAGAGCTGTGACTGCCTGCAGGGCTTCAGCTGACCCACTCCCTGGGT  
 GGGGGACTGGGTCTGGGATGGTACCCTCCTTATCAGCAAGTCCGGGAGGAGTACCCAGACAGAATCA  
 TGAACACCTTCAGTGTGGTACCTCCCCCAAGGTGTCGGACACAGTGGTTGAGCCCTACAATGCCACCT  
 TTCAGTCCACAGCTGGTTGAAAACACAGATGAGACCTATTGTATTGATAATGAAGCACTTTATGACATC  
 TGCTTCAGAACCTAAAGCTGACCACACCCACTTACGGTGACCTGAACCATCTAGTGTCCGCCACCATGA  
 GTGGGGTAACCACTTGCCTGCGATTCCCTGGCCAGCTAAATGCTGACCTGCGGAAACTGGCTGTAATAT  
 GGTGCCCTTCCCTCGCTGCACTTCTTCATGCCTGGCTTTGCCCCCTTGACCAGCCGGGGCAGCCAGCAG  
 TACCGTGCCCTGACAGTTCCTGAGCTCACCCAGCAGATGTTTGTATGCCAAGAACATGATGGCTGCCTGTG  
 ATCCAAGACATGGGCGCTACTTGACTGTGGCTGCCGTGTTTCAGGGGCCGATGTCTATGAAGGAGGTGGA  
 CGAACAGATGCTTAATGTCCAAAACAAGAACAGCAGCTACTTTGTTGAGTGGATCCCCAACAAATGTGAAG  
 ACAGTGTCTGTGACATTCCACCTCGGGCCTGAAAATGTCCGCCACCTTCATTGGCAACAGCACCCTA  
 TTCAGGAGCTGTTCAAACGCATCTCAGAGCAGTTCACAGCCATGTTCCGACGCAAGGCCTTCCTACACTG  
 GTACACGGGTGAAGGCATGGATGAGATGGAGTTCCTACTGAGGCTGAGAGCAACATGAACGACCTGGTGTCC  
 GAGTACCAGCAGTACCAGGACGCTACAGCTGAGGAAGAGGGAGAGTTTGTAGGAGGAGGCTGAGGAGGAGG  
 TGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207096 protein sequence  
 Red=Cloning site Green=Tags(s)

MREIVHLQAGQCNGQIGAKFWEVISDEHGIDPTGTYHGDSLQLERINVYNEATGGKYVPRAVLVDLEP  
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVSdTVEPYNATLSVHQLVENTDETYCIDNEALYDI  
 CFRTLKLTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQMFDKNNMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK  
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATAEEEEGEFEEEEEEVA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_146116

**ORF Size:** 1338 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\\_146116.2](#)

**RefSeq Size:** 1600 bp

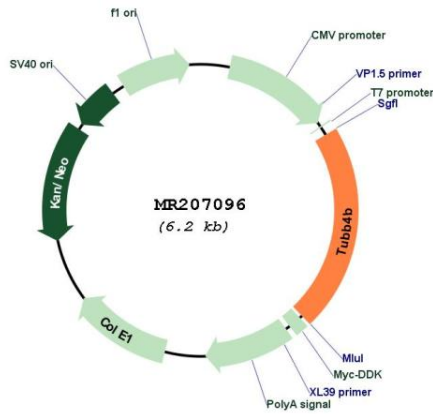
**RefSeq ORF:** 1338 bp

**Locus ID:** 227613

**UniProt ID:** [P68372](#)

**Cytogenetics:** 2 A3  
**MW:** 49.8 kDa  
**Gene Summary:** 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]

**Product images:**



Circular map for MR207096