

## Product datasheet for **MR224088**

### **Tubb1 (NM\_001080971) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tubb1 (NM_001080971) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb1
Synonyms:	2810484G07Rik; M(beta)1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224088 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGAGAGATCGTGCACATCCAGATTGGCCAGTGTGGCAACCAGATCGGAGCCAAGTTCTGGGAGGTGA  
 TCGGGGAAGAACATGGGATTGACTGCGCTGGGAGCTACTGTGGGACGTCTGCTCTCCAGCTGGAGAGGAT  
 CAGCGTTTACTACAACGAAGCCTACGGTAAGAAGTATGTGCCGCGAGCCGTCCTTGTGGACCTGGAACCC  
 GGGACAATGGACAGCATCCGATCCAGCAGATTGGGAGTCTCTTTCAGCCTGACAGTTTTTGTTCATGGTA  
 ACTCTGGTGTGGTAACAACCTGGGCGAAGGGCCACTACACAGAGGGAGCGGAGCTGATCGAAAATGTCAT  
 GGATGTGGTAAGGAGGGAGAGCGAGAGCTGCGACTGCCTACAGGGTTTCCAGATCGTGCATTCTCTGGGT  
 GGAGGCACGGCTCAGGCATGGCACCCCTGCTCATGAACAAGATCAGGGAGGAGTACCCGGATCGGATCT  
 TGAACCTCTTACGCTCATGCCATCACCAAGGTATCAGACACGGTGGTAGAGCCCTACAATGCCGTGCT  
 ATCCATCCACCAGCTGATAGAGAACACAGATGCCTGCTTCTGCATCGACAACGAAGCGCTCTATGACATT  
 TGTTTCCGCACCCTGAGGCTGACGACACCACCTACGGGGATCTCAACCCTGGTGTCTTGCACATGA  
 GCGGAATCAGACTTCACTGCGCTTCCCGGTCAGCTCAATGCAGACCTGCGCAAGCTGGCCGTAATAT  
 GGTGCCCTTCTCGTCTTCACTTCTTCATGCCTGGCTTTCGCTCCACTCACAGCCAGGGTAGCCAGCAG  
 TACCGAGCCCTCTCAGTAGCGGAGCTCACCAACAGATGTTTCGATGCCCGCAACATCATGGCTGCCTGTG  
 ACCCTCGCCGCGCCGCTACCTGACTGTGGCTGTATATCCGGGGTAAGATGTCCACCAAGGAAGTGGAA  
 CCAACAGCTGTGTCCATTACAGACAAGGAACAGCAACTGCTTGTGGAATGGATTCCCAACAATGTCAAG  
 GTAGCTGTGTGACATCCCGCCCGTGGGCTGAACATGGCAGCTACCTTCTGGCAACAATACAGCCA  
 TCCAAGAGCTCTTACCAGGGTCTCTGAGCACTTCTCAGCTATGTTTCAGAAGGAGAGCTTTTGTGCACTG  
 GTACACCAGTGAAGGGATGGACATAAGTGAATTTGGGGAAGCTGAGAGTGATATCCATGACCTGGTGTCT  
 GAGTACCAACAATTCCAAGATGTAGAGCAGGGCTAGAGGACAGTGAAGAGGATGTGGAGGAGGCAGAGG  
 TGGAGGCAGAAGACAAAGATCAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224088 protein sequence  
 Red=Cloning site Green=Tags(s)

MREIVHIQIQCGNQIGAKFWEVIGEEHGIDCAGSYCGTSALQLERISVYYNEAYGKKYVPRAVLVDLEP  
 GTMDSIRSSRLGVLFPDSFVHGNSGAGNNWAKGHYTEGAELIENVM DVVRRESESCDCLQGFQIVHSLG  
 GGTGSGMGTLLMNKIREEYPDRILNSFSVMPSPKVS DTVVEPYNAVLSIHQLIENTDACFCIDNEALYDI  
 CFRTRLRLTPTYGDLNHLVSLTMSGITTSRFPGLNADLRKLA VNMVFPRLHFFMPGFAPLTAQGSQQ  
 YRALSV AELTQQMFDARNIMAACDPRRGRYLTVACIFRGKMSTKEVDQQLLSIQTRNSNCFVEWIPNNVK  
 VAVCDIPRGLNMAATFLGNNTAIQELFTRVSEHF SAMFRRRAFVHWY TSEGMDISEFGAE SDIHDLVS  
 EYQQFQDVRAGLEDSEEDVEEA EVEAEDKDH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001080971

**ORF Size:** 1356 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

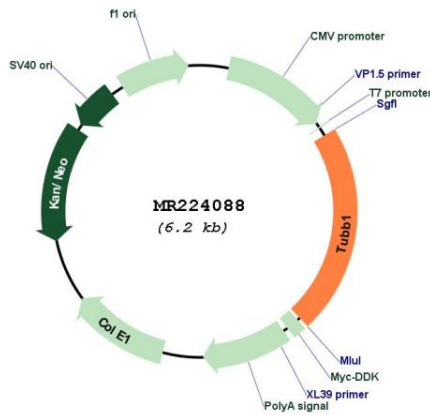
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001080971.2](#), [NP\\_001074440.1](#)  
**RefSeq Size:** 2004 bp  
**RefSeq ORF:** 1356 bp  
**Locus ID:** 545486  
**UniProt ID:** [A2AQ07](#)  
**Cytogenetics:** 2 H4  
**MW:** 50.4 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 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224088