

Product datasheet for **MG224088**

Tubb1 (NM_001080971) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb1 (NM_001080971) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubb1
Synonyms:	2810484G07Rik; M(beta)1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG224088 representing NM_001080971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGAGAGATCGTGCACATCCAGATTGGCCAGTGTGGCAACCAGATCGGAGCCAAGTTCTGGGAGGTGA
 TCGGGGAAGAACATGGGATTGACTGCGCTGGGAGCTACTGTGGGACGTCTGCTCTCCAGCTGGAGAGGAT
 CAGCGTTTACTACAACGAAGCCTACGGTAAGAAGTATGTGCCGCGAGCCGTCCTTGTGGACCTGGAACCC
 GGGACAATGGACAGCATCCGATCCAGCAGATTGGGAGTCTCTTTCAGCCTGACAGTTTTGTTTCATGGTA
 ACTCTGGTGTGGTAACAACCTGGGCGAAGGGCCACTACACAGAGGGAGCGGAGCTGATCGAAAATGTCAT
 GGATGTGGTAAGGAGGGAGAGCGAGAGCTGCGACTGCCTACAGGGTTTCCAGATCGTGCATTCTCTGGGT
 GGAGGCACGGCTCAGGCATGGCACCCCTGCTCATGAACAAGATCAGGGAGGAGTACCCGGATCGGATCT
 TGAACCTCTTTAGCGTCATGCCATCACCAAGGTATCAGACACGGTGGTAGAGCCCTACAATGCCGTGCT
 ATCCATCCACCAGCTGATAGAGAACACAGATGCCTGCTTCTGCATCGACAACGAAGCGCTCTATGACATT
 TGTTTCCGCACCCTGAGGCTGACGACACCACCTACGGGGATCTCAACCCTGGTGCCTTGACCATGA
 GCGGAATCAGACTTCACTGCGCTTCCCGGTCAGCTCAATGCAGACCTGCGCAAGCTGGCCGTAATAT
 GGTGCCCTTTCCTCGTCTTCACTTCTTCATGCCTGGCTTCGCTCCACTCACAGCCAGGGTAGCCAGCAG
 TACCGAGCCCTCTCAGTAGCGGAGCTCACCAACAGATGTTTCGATGCCCGCAACATCATGGCTGCCTGTG
 ACCCTCGCCGCGGCCGCTACCTGACTGTGGCTTGATATTCGGGGTAAGATGTCCACCAAGGAAGTGGAA
 CCAACAGCTGTGTCCATTACAGACAAGGAACAGCAACTGCTTTGTGGAATGGATTCCCAACAATGTCAAG
 GTAGCTGTGTGACATCCCGCCCGTGGGCTGAACATGGCAGCTACCTTCTGGCAACAATACAGCCA
 TCCAAGAGCTCTTACCAGGGTCTCTGAGCACTTCTCAGCTATGTTTCCAGGAGAGAGCTTTTGTGCACTG
 GTACACCAAGTGAAGGGATGGACATAAGTGAATTTGGGGAAGCTGAGAGTGATATCCATGACCTGGTGTCT
 GAGTACCAACAATTCCAAGATGTAGAGAGGGCTAGAGGACAGTGAAGAGGATGTGGAGGAGGCAGAGG
 TGGAGGCAGAAGACAAAGATCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224088 representing NM_001080971
 Red=Cloning site Green=Tags(s)

MREIVHIQIGQCGNQIGAKFWEVIGEEHGIDCAGSYCGTSALQLERISVYYNEAYGKKYVPRAVLVDLEP
 GTMDSIRSSRLGVLFPDSFVHGNAGNNAKGHYTEGAELIENVMDVVRRESESCDCLQGFQIVHSLG
 GGTGSGMGTLLMNKIREEYPDRILNSFSVMPSPKVSDDTVEPYNAVL SIHQLIENTDACFCIDNEALYDI
 CFRTLRLTPTYGDLNHLVSLTMSGITTSRFPGLNADLRKLA VNMVFPRLHFFMPGFAPLTAQGSQQ
 YRALSV AELTQQMFDARNIMAACDPRRGRYLTVACIFRGKMSTKEVDQQLLSIQTRNSNCFVEWIPNNVK
 VAVCDIPRGLNMAATFLGNNTAIQELFTRVSEHF SAMFRRRAFVHWYTSSEGMDISEFGEAESDIHDLVS
 EYQQFQDVRAGLEDSEEDVEEAEEAEDKDH

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2254_a04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001080971

ORF Size: 1353 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 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).

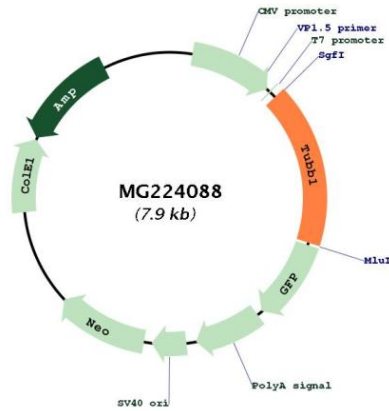
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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: 1406 bp
 RefSeq ORF: 1356 bp
 Locus ID: 545486
 UniProt ID: [A2AQ07](#)
 Cytogenetics: 2 H4

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 MG224088