

## Product datasheet for **RG213889**

### **TUBB8 (NM\_177987) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TUBB8 (NM_177987) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBB8
Synonyms:	bA631M21.2; OOMD; OOMD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213889 representing NM\_177987  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGGAGATCGTGCTCACGCAGATCGGGCAGTGC GGGAATCAGATCGGCGCCAAGTTCTGGGAGGTGA  
 TCTCTGATGAACATGCCATCGACTCCGCTGGCACCTACCGGGACAGCCACCTGCAGCTGGAGCGCAT  
 CAACGTGTACTACAACGAGGCCAGCGGTGGCAGGTACGTGCCCGCGCTGTGCTCGTGGATCTGGAGCCG  
 GGCACCATGGACTCTGTGCGCTCGGGGCCCTTCGGGCAGGTCTTCAGGCCAGACAACTTCATCTTCGGTC  
 AGTGTGGGGCCGAAACAACTGGGCTAAGGGACACTACACCGAAGGCGCGGAGCTGATGGAGTCAGTGAT  
 GGACGTTGTGAGAAAGGAGGCTGAGAGCTGTGACTGTCTGCAGGGTTTCCAGCTGACCCACTCCCTGGGT  
 GGGGGACTGGTCTGGGATGGTACCCTTCTGCTCAGTAAGATCCGGGAGGAGTACCCAGACAGGATCA  
 TAAACACATTAGCATCCTGCCCTCGCCAAGGTGTCGGACACCGTGGTGGAGCCCTACAACGCCACCT  
 CTCAGTCCACCAGCTCATAGAAAACGCAGATGAGACCTTTTGCATAGATAACGAAGCTCTGTATGACATA  
 TGTTCCAAGACCCTAAAACCTGCCACACCCACCTATGGTGACCTGAACCACCTGGTGTCTGCTACCATGA  
 GTGGGGTCAACCGTGCCTGCGCTTCCCAGGCCAGCTGAATGCTGACCTGCGGAAGCTGGCCGTGAACAT  
 GGTCCCCTTCCCAGCTGCATTTCTTCATGCCCGGCTTTGCCCACTGACCAGCCGGGGCAGCCAGCAG  
 TACCGGCCCTTGACTGTGGCTGAGCTTACCCAGCAGATGTTTGTGCTAAGAACATGATGGCTGCCTGTG  
 ACCCCCGTCACGGCCGCTACCTAACGGCGGCTGCCATTTTCAGGGGTGCGATGCCCATGAGGGAGGTGGA  
 TGAACAAATGTTCAACATTCAAGATAAGAACAGCAGTTACTTTGCTGACTGGCTCCCCAACCAACGTA  
 ACAGCCGCTGTGACATCCCACCCCGGGGGCTAAAAATGTCAGCCACCTTCATTGGGAATAATACGGCCA  
 TCCAGGAACTCTCAAGCGTGTCTCAGAGCAGTTTACAGCAATGTTTCAGGCGCAAGGCCCTCCTCCACTG  
 GTACACGGGCGAGGGCATGGATGAGATGGAATTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCT  
 GAATATCAGCAATATCAGGATGCCACGGCCGAGGAGGAGGATGAGGAGTATGCCGAGGAGGAGGTGG  
 CC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213889 representing NM\_177987  
 Red=Cloning site Green=Tags(s)

MREIVLTQIGQCGNQIGAKFWEVISDEHAIDSAGTYHGDSLQLERINVYYNEASGGRYVPRAVLVDLEP  
 GTMDSVRSRGGPFGQVFRPDNFI FGQCGAGNNWAKGHYTEGAELMESVMDVVRKEAESDCDLQGFQLTHSLG  
 GGTGSGMGTLLL SKIREEYPDRIINTFSILPSPKVS DTVVEPYNATLSVHQLIENADETFCIDNEALYDI  
 CSKTLKLPPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVAELTQQMFDANKMMAACDPRHG RYLTAAAI FRGRMPMREVDEQMFNIQDKNSSYFADWLPNNVK  
 TAVCDIPRGLKMSATFIGNNTAIQELFKRVSEQFTAMFRRKAF LHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATAEEEEDEEYAE EEEVA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_177987

**ORF Size:** 1332 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.

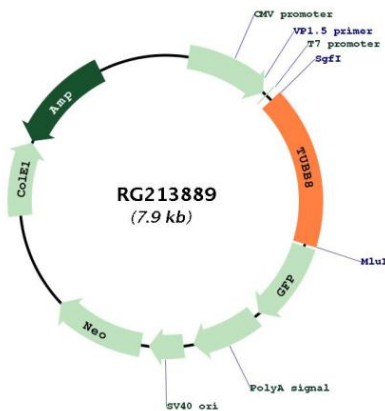
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_177987.1](#), [NP\\_817124.1](#)

RefSeq Size: 1335 bp  
 RefSeq ORF: 1335 bp  
 Locus ID: 347688  
 UniProt ID: [Q3ZCM7](#)  
 Cytogenetics: 10p15.3  
 Protein Pathways: Gap junction, Pathogenic Escherichia coli infection  
 Gene Summary: The protein encoded by this gene represents the primary beta-tubulin subunit of oocytes and the early embryo. Defects in this gene, which is primate-specific, are a cause of oocyte maturation defect 2 and infertility. [provided by RefSeq, Mar 2016]

### Product images:



Circular map for RG213889