

Product datasheet for **RG200408**

gamma Tubulin (TUBG1) (NM_001070) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Tubulin (TUBG1) (NM_001070) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	gamma Tubulin
Synonyms:	CDCBM4; GCP-1; TUBG; TUBGCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200408 representing NM_001070
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAGGAAATCATCACCTACAGTTGGGCCAGTGCAGCAATCAGATTGGGTTGCGATTCTGGAAC
 AGCTGTGCGCCGAGCATGGTATCAGCCCCGAGGCATCGTGGAGGAGTTCGCCACCGAGGCACTGACCG
 CAAGGACGTCTTTTTCTACCAGGCAGACGATGAGCACTACATCCCCGGGCGTGTCTGGACTTGAA
 CCCCAGGATCCACTCCATCCTCAACTCCCCCTATGCCAAGCTCTACAACCCAGAGAACATCTACCTGT
 CGGAACATGGAGGAGGAGCTGGCAACAAGTGGCCAGCGGATTCTCCAGGGAGAAAAGATCCATGAGGA
 CTTTTTTGACATCATAGACCGGGAGGCAGATGGTAGTGACAGTCTAGAGGGCTTTGTGCTGTCTACTCC
 ATTGCTGGGGGACAGGCTCTGGACTGGTTCTACCTCTTAGAACGGCTGAATGACAGGTATCCTAAGA
 AGCTGGTGACACATACTCAGTGTTCACAACCGAGCAGATGAGCGATGTGGTGTCCAGCCTTACAA
 TCACTCCTCACACTCAAGAGGCTGACGCAGAATGCAGACTGTGTGGTGGTGTGGACAACACAGCCCTG
 AACCGGATTGCCACAGACCGCCTGCACATCCAGAACCCATCCTTCTCCAGATCAACCAGCTGGTGTCTA
 CCATCATGTGACCCAGCACCACCCTGCGCTACCCTGGCTACATGAACAATGACCTCATCGGCCTCAT
 CGCCTCGCTATTCCCACCCACGGCTCCACTTCTCATGACCGGCTACACCCCTCTCACTACGGACCAG
 TCAGTGGCCAGCGTGAGGAAGACCACGGTCTGGATGTCATGAGGCGGCTGCTGCAGCCCAAGAACGTGA
 TGGTGTCCACAGGCCGAGACCGCCAGACCAACCACTGCTACATCGCCATCCTCAACATCATCCAGGGAGA
 GGTGGACCCACCCAGGTCCACAAGAGCTTGCAGAGGATCCGGGAACGCAAGTTGGCCAACCTTATCCCG
 TGGGGCCCCGCCAGCATCCAGGTGGCCCTGTGAGGAAGTCTCCCTACCTGCCCTCGGCCACCGGGTCA
 GCGGGCTCATGATGGCCAACCACACAGCATCTCCTCGCTCTTCGAGAGAACCTGTGCGCCAGTATGACAA
 GCTGCGTAAGCGGGAGGCTTCTGAGCAGTTCGCAAGGAGGACATGTTCAAGGACAACCTTTGATGAG
 ATGGACACATCCAGGGAGATTGTGACGAGCTCATCGATGAGTACCATGCGGCCACACGGCCAGACTACA
 TCTCCTGGGGCACCCAGGAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200408 representing NM_001070
 Red=Cloning site Green=Tags(s)

MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTRKDVFFYQADDEHYIPRAVLLDLE
 PRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFDIIDREADGSDSLEGFVLS
 IAGGTGSLGSLYLLERLNDRYPKKLVTYSVFPNQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTAL
 NRIATDRHLHIQNPFSQINQLVSTIMSASTTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQ
 SVASVRKTTVLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIP
 WGPASIQVALSRKSPYLPSAHRVSGLMANHTSISSELFERTCRQYDKLRKREAFLEQFRKEDMFKDNFDE
 MDTSRREIVQQLIDEYHAATRPDIISWGTQEQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001070

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.

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_001070.5](#)

RefSeq Size: 1645 bp

RefSeq ORF: 1356 bp

Locus ID: 7283

UniProt ID: [P23258](#)

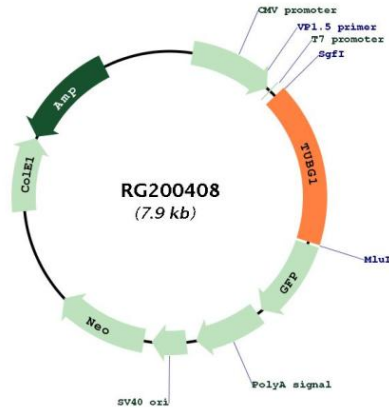
Cytogenetics: 17q21.2

Domains: tubulin

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the tubulin superfamily. The encoded protein localizes to the centrosome where it binds to microtubules as part of a complex referred to as the gamma-tubulin ring complex. The protein mediates microtubule nucleation and is required for microtubule formation and progression of the cell cycle. A pseudogene of this gene is found on chromosome 7. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RG200408