

Product datasheet for SC119462

gamma Tubulin (TUBG1) (NM_001070) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Tubulin (TUBG1) (NM_001070) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Tubulin
Synonyms:	CDCBM4; GCP-1; TUBG; TUBGCP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119462 sequence for NM_001070 edited (data generated by NextGen Sequencing)

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ATGCCGAGGGAAATCATCACCTACAGTTGGGCCAGTGC GGCAATCAGATTGGGTTCGAG
TTCTGGAAACAGCTGTGCGCCGAGCATGGTATCAGCCCGAGGGCATCGTGGAGGAGTTC
GCCACCGAGGGCACTGACCGCAAGGACGCTTTTTTCTACCAGGCAGACGATGAGCACTAC
ATCCCCGGGGCCGTGCTGCTGGACTTGGAAACCCGGGTGATCCACTCCATCCTCAACTCC
CCCTATGCCAAGCTCTACAACCCAGAGAACATCTACCTGTGCGAACATGGAGGAGGAGCT
GGCAACAACCTGGGCCAGCGGATTCTCCAGGGAGAAAAGATCCATGAGGACATTTTTGAC
ATCATAGACCGGGAGGCAGATGGTAGTGACAGTCTAGAGGGCTTTGTGCTGTGCTACTCC
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TATCCTAAGAAGCTGGTGCAGACATACTCAGTGTTCCTCAACAGGAGATGAGCGAT
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TGTGTGGTGGTGTGACAAACACAGCCCTGAACCGGATTGCCACAGACCGCCTGCACATC
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CACACCAGCATCTCCTCGCTCTTCGAGAGAACCTGTGCGCAGTATGACAAGCTGCGTAAG
CGGGAGGCCTTCTGGAGCAGTTCGCAAGGAGGACATGTTCAAGGACAACCTTTGATGAG
ATGGACACATCCAGGGAGATTGTGCAGCAGCTCATCGATGAGTACCATGCGGCCACACGG
CCAGACTACATCTCTGGGGCACCCAGGAGCAGTGA

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Clone variation with respect to NM_001070.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001070 unedited
 GGGGGGGGGGNNNNNTTTTTCCCNNNNGGTTCAAATTTGTATACGACTCACTATAG
 GCGGCCGCGNAATTCGCACGAGGCGGCTGCAACGCCGGTGCCTGAGGAGCGATNNGCCGA
 GGGAAATCATCACCTACAGTTGGGCCAGTGCGGCAATCAGATTGGGTTTCGAGTTCTGGA
 AACAGCTGTGCGCCGAGCATGGTATCAGCCCCGAGGGCATCGTGGAGGAGTTCGCCACCG
 AGGGCACTGACCGCAAGGACGCTTTTTCTACCAGGCAGACGATGAGCACTACATCCCCC
 GGGCCGTGCTGCTGGACTTGAACCCCGGGTGATCCACTCCATCCTCAACTCCCCCTATG
 CCAAGCTCTACAACCCAGAGAACATCTACCTGTCGGAACATGGAGGAGGAGCTGGCAACA
 ACTGGCCAGCGATTCTCCAGGGAGAAAAGATCCATGAGGACATTTTTGACATCATAG
 ACCGGGAGGCAGATGGTAGTGACAGTCTAGAGGGCTTTGTGCTGTGCTACTCCATTGCTG
 GGGGGACAGGCTCTGGACTGGGTCTACCTCTTAGAACGGTGAATGACAGGTATCCTA
 AGAAGCTGGTGCAGACATACTCAGTGTTCCTCAACAGGACGAGATGAGCGATNTGGGTT
 GGTCCAGCCTTACAATTCCTCCTCACACTCAAGAGGCTGACGCAGATGCAACTGTGTGG
 GGGGGGGCTTGGACACACAGGCCCTGACCCGGATTGCCACAGAACCCTGCACATCCA
 GAACCCATCCTTCTCCAAATCAACAGCCTGGTGGCTACCATCATGTCAGCCAGCACCAC
 CACCCTTGCCTACCCTGGCTACATGAACCATGACCTTATACGGCTCATCGGCTNCTCA
 TNCCCACCCAGGGTTCCCTTCTCATGACCCGGNTACAACCTCTTACTACGGACCAGTA
 AGTGGCCACCGTGGAGAAGAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001070 unedited
 TGGTATGGCACTCCAGGCCAGGAGCACTGGGGAGGGTACAGGTGCCACCCGGGATCT
 GTTCAGAAACAGCTATGACCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTT
 GATTTATATCCAGTGCTTTATTAAGATAAATAGTCTCATAAGAGGAGAAGTAAATGTGT
 TTGCAGGCCAACAGAGATCCATGTATATGAAAAGAGATGCGTGAGGTCCCTGATCTGT
 GCTCTGAGGGGGTGGTCACTCAGGCAGGGCTTGGGCCAACAGTAAGGCAGATGAGGGTC
 CCTGCTCCTGGGGACTACTGCTCCTGGGTGCCCAGGAGATGTAGTCTGGCCGTGTGGC
 CGCATGGTACTCATCGATGAGCTGCTGCACAATCTCCCTGGATGTGTCCATCTCATCAA
 GTTGTCTTGAACATGCTCCTCTGCGAACTGCTCCAGGAAGGCCTCCCGTTACGCAG
 CTTGTCTACTGGCGACAGGTTCTCTCGAAGGCGAGGAGATGCTGGTGTGGTTGGCCATC
 ATGAGCCCGCTGACCCGGTGGGCCGAGGGCCANGTAGGGAGACTTNCTCCACAGGGCCAC
 CTGGATGCTGGCGGGCCACGGAATGAAGTTGGCCAACTTGCCTTCCCGGATCCTCTG
 CAAGCTCTTGTGAACCTGGGTGGGGCCACCTCTCCCTGAATGATGTTGAGGATGGCCA
 TTTACCATGGGTTGTTTTGGCGTTTCGGCCTGTGGACACCATCACGTTCTTGGGCTGGA
 GCAACCGCCTTATGACATCCAGGACCGGGTTCTTTCTCACCTGGACACTTGACTGTCC
 CCTAGGGAAAGGGGCTGTACCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_001070

Insert Size:

1570 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001070.3](#), [NP_001061.2](#)

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]