

Product datasheet for SC114262

gamma Tubulin (TUBG2) (NM_016437) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Tubulin (TUBG2) (NM_016437) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Tubulin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114262 sequence for NM_016437 edited (data generated by NextGen Sequencing)

```

ATGCCCCGGGAGATCATCACCTGCAGCTGGGCCAGTGC GGCAACCAGATTGGGTTCGAG
TTCTGGAAACAGCTGTGCGCCGAGCATGGTATCAGCCCCGAGGGCATCGTGGAGGAGTTC
GCCACCGAGGGCACTGACCGCAAGGACGTCTTTTTCTACCAGGCAGACGATGAGCACTAC
ATCCCCGGGGCCGTGCTGCTGGACTTGGAAACCCGGGTGATCCAATCCTCAACTCC
CCCTATGCCAAGCTCTACAACCCAGAGAACATCTACCTGTGCGAACATGGAGGAGGAGCT
GGCAACAACCTGGGCCAGCGGATTCTCCAGGGTGAGAAAATTCATGAAGACATCTTTGAC
ATCATAGACCGAGAAGCAGATGGAAGTGACAGTTTGGAGGGCTTCGTGCTGTGCTACTCC
ATCGCTGGGGGTACGGGTTCTGGCCTGGGCTCCTACCTCCTGGAGCGACTGAATGACAGG
TACCCCAAGAAGCTAGTGCAGACTTATTCAGTGTTCCTACCAGGACGAGATGAGCGGAC
GTAGTGGTTTCAGCCCTACAATTCCTCCTGACACTCAAGAGGCTGACGCGAGAACGCAGAT
TGTGTGGTGGTGCTGGACAACACAGCCCTGAACCGGATTGCCACAGACCGCCTGCACATC
CAGAACCCTCCTTCTCCAGATCAACCAGCTGGTGTCCACCATCATGTGCGCCAGCACC
ACCACCTGCGCTACCCCGGCTACATGAACAATGACCTCATCGGCCTCATCGCCTCGCTC
ATTCCACCCACGGCTCCTCCTCATGACCGGCTACACCCGCTCACTACAGACCAG
TCAGTGGCCAGCGTGAGGAAGACCACGGTCTGGATGTCATGAGGCGGCTGCTGCAGCCC
AAGAACGTGATGGTGTCCACAGGCCGAGACCGCCAGACCAACCACTGCTACATCGCCATC
CTCAACATCATCCAGGGAGAGGTGGACCCACCCAGGTCCACAAGAGCCTGCAGAGGATC
CGGGAACGGAAGTTGGCCAACTTCATCCCGTGGGGCCCCGCCAGCATCCAGGTGGCCCTG
TCGAGGAAGTCTCCCTACCTGCCCTCAGCCCACCGGGTCAGCGGGCTCATGATGGCCAAC
CACACCAGCATCTCCTCGCTCTTTGAAAGTTTCTGCCAGCAGTTTGACAAGCTGCGGAAG
CGGGATGCCTTCTCGAGCAGTTCCGTAAGGAGGACGTGTTCAAGGACAACCTTTGATGAG
ATGGACAGGTCTAGGGAGGTTGTTTCAGGAGCTCATTGATGAGTACCATGCGGCCACCCAG
CCAGACTACATTTCTGGGGCACCCAGGAGCAGTGA

```

Clone variation with respect to NM_016437.2
117 a=>g;1107 g=>a;1237 a=>g



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016437 unedited
 CCGTTCAGAATTGTAACGACTCCTATAGGCGGCCTGCGAATTCGCACGAGGCGCGCTCC
 CCCGTCCTGCGCTCCTGGCTGCCGGCATTCTGTCTCAGCCGTGACTCTCGCCAGGCCGG
 GCTGGCGCGCCACGTCTGAAGAGCGATGCCCCGGGAGATCATCACCTGCAGCTGGGCC
 AGTGCGGCAACCAGATTGGGTTCTGAAACAGCTGTGCGCCGAGCATGGTATCA
 GCCCCGAGGGCATCGTGGAGGAGTTCGCCACCGAGGGCACTGACCGAAGGACGTCTTTT
 TCTACCAGGCAGACGATGAGCACTACATCCCCGGGCGGTGCTGCTGGACTTGGAAACCC
 GGGTGATCCACTCCATCCTCAACTCCCCCTATGCCAAGCTCTACAACCCAGAGAATCT
 ACCTGTGGAACATGGAGGAGGAGCTGGCAACAACTGGGCCAGCGGATTCTCCAGGGTG
 AGAAAATTCATGAAGACATCTTTGACATCATAGACCGAGAAGCAGATGGAAGTGACAGTT
 TGGAGGGTTCGTGCTGTGCTACTCCATCGCTGGGGGTACGGGTTCTGGCCTGNGCTCCT
 ACCTCCTGGAGCGACTGAATGACAGGTACCCCAAGAAGCTAGTGCAGACTTATTCAGTGT
 TTCCCTACCAGGACGAGATGAGCGACGTAGTGGTTCAGCCCTACAATTCCTCCTGACAC
 TCAAGAGGCTGACGCAGAACGCAGATTGTGTGGTGGTGTGGACCACACAGCCCTGAACT
 GNATTGCCACAGACCGNCTGCACATNCAGAACCCGTCCTTCTCCAGATCACCAGCTGGT
 GTCACCATCATGTNNGCCAGCACCACCACCTGCGCTACCCCGCTACATGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016437 unedited
 AGGAGAGGCACTGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAACGGACAACCAAGCTTTTTTTTTT
 TTTTAAAGCTGAACAACCTTTTTAAAATTTAGGGCCTGGAAGGGGGAACCAGGACCCCC
 TCCCGGGCTGGAAAAAACAAAAAGGGTTGCCATGAGGGGAACTGGGTCAAAGGGAA
 CAGGCATGGCCAAGGCTGGGTTACCATTTAAAAGGAAAAGGAGTTGGGGGAGGGAAT
 CACTGCTCCTGGGGCCCAAAAAATGATTCTGGGTGGGGGCCCATGGAACTCATAA
 AGGAGCTCCTGAACAACCTCCCTAAACCTGTCCATTTAATAAAAAGTTGGCCTGAACACG
 TCCTCCTTAAGAAACTGGTCGAGGAAGGCATCCCGCTCCGCAATTTGTGAAACTGCTGG
 CAGGAACCTTCAAAAAGCGAGGAAATGCTGGTGTGGTTGGCCATTATGACCCCTTACC
 CGGTGGGCTGAGGGCAAGTANGGAACTCCTTGAAGGGCCACCTGGATGGTGGCGGCGC
 CCCACGGAATGAATTCGCCAATCCCGTTCCCGGATCCTTTGAGGCTCTTGGGACCT
 GGNNGGGGGCCACCTTCCCTGGATGATGTGGAGGAGGGGATGTAAACAGTGGTTGGTTG
 GGGCCTGGCCTGGGAACACAATACGTTTTTGGCTGGAACCCCGCTATAAATCAGAAACC
 GGGCCTCCTACCTGCCCTGACGGTTTTGAAGAGCGGGGTGACCGCAAAAGAAAGACCC
 GGGGGGGGAATACCAGCAAAGCCCAAGTTTTTTCTTTTCCCGGTGCACCGGGGGGGG
 GTTCTCCCCCAAGGGCACACCCCTTATAATGAAAAAGGTTCTCCCTTCATNCCCTTT
 TATCTCCACGTGCTGTCCACCACCACATCTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_016437

Insert Size:

1830 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_016437.1](#), [NP_057521.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1356 bp

Locus ID: 27175

UniProt ID: [Q9NRH3](#)

Cytogenetics: 17q21.2

Domains: tubulin

Protein Families: Druggable Genome

Gene Summary: Tubulin is the major constituent of microtubules. The gamma chain is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. Pericentriolar matrix component that regulates alpha/beta chain minus-end nucleation, centrosome duplication and spindle formation (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. It encodes isoform 2 which has a shorter N-terminus compared to isoform 1.