

## Product datasheet for SC116313

### beta III Tubulin (TUBB3) (NM\_006086) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta III Tubulin (TUBB3) (NM_006086) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta III Tubulin
Synonyms:	beta-4; CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; TUBB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116313 sequence for NM_006086 edited (data generated by NextGen Sequencing)

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ATGAGGGAGATCGTGCACATCCAGGCCGCGCCAGTGCGGCAACCAGATCGGGGCCAAGTTC
TGGGAAGTCATCAGTGATGAGCATGGCATCGACCCAGCGGCAACTACGTGGGCGACTCG
GACTTGCAGCTGGAGCGGATCAGCGTCTACTACAACGAGGCCCTTCTCACAAGTACGTG
CCTCGAGCCATTCTGGTGGACCTGGAACCCGGAACCATGGACAGTGTCCGCTCAGGGGCC
TTTGGACATCTTTCAGGCCTGACAATTCATCTTTGGTCAGAGTGGGGCCGGCAACAAC
TGGGCCAAGGGTCACTACACGGAGGGGGCGGAGCTGGTGGATTCCGGTCTGGATGTGGT
CGGAAGGAGTGTGAAAACGCGACTGCCTGCAGGGCTTCCAGTGACCCACTCGTGGGG
GGCGGCACGGGCTCCGGCATGGGCACGTTGCTCATCAGCAAGGTGCGTGAGGAGTATCCC
GACCGCATCATGAACACCTTCAGCGTCGTGCCCTCACCAAGGTGTCAGACACGGTGGTG
GAGCCCTACAACGCCACGCTGTCCATCCACCAGCTGGTGGAGAACACGGATGAGACCTAC
TGATCGACAACGAGGGCCTCTACGACATCTGTTCCCGCACCTCAAGCTGGCCACGCCC
ACCTACGGGGACCTCAACCACCTGGTATCGGCCACCATGAGCGGAGTCAACCACCTCCTTG
CGCTTCCCGGGCCAGCTCAACGCTGACCTGCGCAAGCTGGCCGTCAACATGGTGCCTTC
CCGCGCTGCACTTCTTCATGCCCGGCTTCGCCCCCTCACAGCCGGGGCAGCCAGCAG
TACCGGGCCCTGACCGTGCCCGAGCTCACCCAGCAGATGTTTCGATGCCAAGAACATGATG
GCCGCTGCGACCCGCGCCACGGCCGCTACCTGACGGTGGCCACCGTGTTCGGGGCCCG
ATGTCCATGAAGGAGGTGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTAC
TTCGTGGAGTGGATCCCCAACACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGC
CTCAAGATGTCTCCACCTTCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGC
ATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGC
GAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC
GAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGAC
GAGGAGGAGTCGGAGGCCAGGGCCCAAGTGA

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Clone variation with respect to NM\_006086.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006086 unedited  
TCAACATTTGTATACGACTCATATAGGCGGCNCGCAATTCGCACGAGGCCAGTATGAGG  
GAGATCGTGCACATCCAGGCCGGCCAGTGCGGCAACCAGATCGGGGCAAGTTCTGGGAA  
GTCATCAGTGTGAGCATGGCATCGACCCAGCGGCAACTACGTGGGCGACTCGGACTTG  
CAGCTGGAGCGGATCAGCGTCTACTACAACGAGGCCTCTCTCACAAGTACGTGCCTCGA  
GCCATTTCTGGTGGACCTGGAACCCGGAACCATGGACAGTGTCCGCTCAGGGGCCTTTGGA  
CATCTCTTCAGGCCTGACAATTTTCATCTTTGGTCAGAGTGGGGCCGGCAACAACCTGGGCC  
AAGGGTCACTACACGGAGGGGGCGGAGCTGGTGGATTTCGGTCTGGATGTGGTGCGGAAG  
GAGTGTGAAAACCTGCGACTGCCTGCAGGGCTTCCAGCTGACCCACTCGCTGGGGGGCGGC  
ACGGGCTCCGGCATGGGCACGTTGCTCATCAGCAAGGTGCGTGAGGAGTATCCCGACCGC  
ATCATGAACACCTTCAGCGTCGTGCCCTCACCAAGGTGTGAGACACGGTGGTGGAGCCC  
TACAACGCCACGCTGTCCATCCACCAGCTGGTGGAGAACACGGATGAGACCTACTGCATC  
GACAACGAGGCGCTCTACGACATCTGCTCCGCACCTCAAGCTGGCCACGCCACCTAC  
GGNNGACCTCACCACTGGTATCGGCCACCATGAGCGGAGTACCACCTCCTTGGCGTTC  
CNGGGCCAGCTCAACGCTGACCTGCGNCAGCTGGGCCGTACATGGTGCCTTCCGCGCC  
TGCACTTCTTATGCCCGCTTCGCCCCCTCACAGCCCGGGCAGCCAGCAGTCCGGGCCCT  
GACGTGCCCGAGCTCAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006086 unedited  
GCCCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATCTGACAGCAATAGA  
TTTATTAAGTATCCCGAAAATTAAACACAAACCAGTAAAAACAAAACCGTAAAACGTC  
AGGCTGGAGCTGCAATAAGACAGAGACAGGAGCAGCTCACACGTGGCCTAGGTGGGGAG  
GACGAGGCCATAAATACTGCAGGAGGGCGCAAGGGAGCCCTAGGGCAGGGGAAAGCAG  
GGTGTCCGCGAGCAAGATGGCTCCGGGGTTTAGACACTGCTGGCTTCGGCCCCGGCCGCC  
ACCTGCCTCTCACTCCAGCTGCGAGCAGCTTCACTTGGGGCCCTGGGCCTCCGACTCCTC  
CTCGTCGTCTTCGTACATCTCGCCCTTCTCCTCGGCCGTGGCGTCTGGTACTGCTGGTA  
CTCGGACACCAGGTGTTTTCATGTTGCTCTCGGCCCTCGGTGAACCTCATCTCGTCCATGCC  
CTCGCCCGTGTACCAGTGCAGGAAGGCCTTGCGCCGAACATGGCCGTGAACCTGCTCGGA  
GATGCGCTTGAACAGCTCCTGGATGGCCGTGCTGTTCCCGATGAAGGTGGAGGACATCTT  
GAGGCCCGGNGCGGGATGTACACACGCCACCTTACGTTGTTGGGGGATCCACTCCA  
CGAAGTAGCTGCTGTTCTTGGCTGGATGGCCAGCATCTGCTCGTCCACCTCCTTTCATGG  
ACATGCGGCCCGGGAACAGTGGCCACCCTCAGGTANCGCCGTGGCGCGGGTCCGAGG  
CGGCCATCATNGTCTTGGCATCGAACATCTGCTGGGTGAGCTCGGNCACGGTCAGGGNCC  
CNGTACTGCNTGCTTGCCCGNCTGTGAGGNGGGCNAANCCCGCATGAAANTGCAGCGC  
NGAANGCACCATGTGACGGCACTTGCAGTACAGTGCAGTGCCTGACTGCCCGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006086

**Insert Size:**

1770 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\\_006086.2](#), [NP\\_006077.2](#)

**RefSeq Size:** 1736 bp

**RefSeq ORF:** 1353 bp

**Locus ID:** 10381

**UniProt ID:** [Q13509](#)

**Cytogenetics:** 16q24.3

**Domains:** tubulin

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS

**Protein Pathways:** Gap junction, Pathogenic Escherichia coli infection

**Gene Summary:** This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Oct 2010]

Transcript Variant: This variant (1) encodes the longest isoform (1).