

## Product datasheet for **SC127517**

### TUBB4B (NM\_006088) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TUBB4B (NM_006088) Human Untagged Clone
Tag:	Tag Free
Symbol:	TUBB4B
Synonyms:	Beta2; LCAEOD; TUBB2; TUBB2C
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127517 sequence for NM_006088 edited (data generated by NextGen Sequencing)

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ATGAGGGAAATCGTGCCTTGCAGGCCGGCAGTGCAGCAACCAATCGGCGCCAAGTTT
TGGGAGGTGATCAGCGATGAGCACGGCATCGACCCACGGGCACCTACCGGGGACAGC
GACCTGCAGCTGGAACGCATCAACGTGTACTACAATGAGGCCACCGCGGCAAGTACGTG
CCCCGCGCGTGTCTCGTGGATCTGGAGCCCGGCACCATGGACTCCGTGCGCTCGGGGCC
TTCGGGCAGATCTTCCGGCCGACAACCTCGTTTTTCGGTCAGAGTGGTGTGGGAACAAC
TGGGCCAAGGGGCACTACACAGAAGGGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTG
AGAAAGGAGGCTGAGAGCTGTGACTGCCTGCAGGGTTCCAGCTGACCCACTCCCTGGGT
GGGGGACTGGGTCTGGGATGGTACCCTCCTCATCAGCAAGATCCGGGAGGAGTACCA
GACAGGATCATGAACACGTTTAGTGTGGTGCCTTCGCCAAAGTGTGACACAGTGGTG
GAGCCCTACAACGCCACCCTCTCAGTCCACCAGCTCGTAGAAAACACAGACGAGACCTAC
TGATTGATAACGAAGCTCTCTACGACATTTGCTTCAAGCCCTAAAGCTGACCACGCC
ACCTATGGTGACCTGAACCACCTGGTGTCTGCTACCATGAGTGGGGTACCACCTGCCTG
CGCTTCCAGGCCAGCTCAATGTGACCTGCGGAAGCTGGCTGTGAACATGGTCCCGTTT
CCCCGGCTGCACTTCTTCATGCCCGGCTTTCGCCCACTGACCAGCCGGGGCAGCCAGCAG
TACCGGGCGTGACCGTGCCCGAGCTCACCCAGCAGATGTTTGATGCCAAGAACATGATG
GCTGCCTGCGACCCCGCCATGGCCGCTACCTGACGGTTGCCCGCTGTTTCAGGGGCCG
ATGTCCATGAAGGAGGTGGATGAGCAAAATGCTTAATGTCCAAAACAAAACAGCAGTAT
TTTGTGAGTGGATCCCCAACAATGTGAAAACGGCTGTCTGTGACATCCCACCTCGGGG
CTAAAAATGTCCGCCACCTTCATTGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGC
ATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGC
GAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCC
GAGTACCAGCAGTACCAGGATGCCACAGCCGAGGAGGAGGGCGAGTTCGAGGAGGAGGCT
GAGGAGGAGGTGGCCTAG

```

Clone variation with respect to NM\_006088.5



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006088 unedited  
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCGCTCTTCTGCTGCTGTTT  
 GTCTACTTCTCTGCTTCCCGCCGCCGCCGCCATCATGAGGGAAATCGTGCACTT  
 GCAGGCCGGGAGTGGGCAACCAAAATCGGCGCAAGTTTTGGGAGGTGATCAGCGATGA  
 GCACGGCATCGACCCACGGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAACGCAT  
 CAACGTGTACTACAATGAGGCCACCGCGGCAAGTACGTGCCCGCGCCGTGCTCGTGG  
 TCTGGAGCCCGCACCATGGACTCCGTGCGCTCGGGGCCCTTCGGGCAGATCTTCCGGCC  
 GGACAACCTTCGTTTTCGGTCAGAGTGGTGTGGGAACAACCTGGGCCAAGGGGCACAC  
 AGAATGCGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTGAGAAAAGGAGGCTGANAGCTG  
 TGACTGCCTGCAGGGTTCCAGCTGACCCACTCCCTGNGTGGTGGGACTGAGTCTGGGAT  
 GGGTACCCTCCTCATCAGCAAGATCCGGGAGGAGTACCCAGACAGGATCATGAACACGTT  
 TAGTGTGGTGCCTTCGCCANAGTGTGACACAGTGGTGGAGCCCTACTACGCCACCT  
 CTCAGTGCACCAGCTCGTAGAATACACAGACGAGACCTACTGCATTGATAACGAAGCTCT  
 CTACGACATTTGCTTCAAGCCCTANAGCTGACCACGCCACCTATGGTGACCTGAACAC  
 CTGGTGTCTGCTACCATGAGTGGGGTACCAACTGCCTGCGCTTCCAGNCAGCTCATGC  
 TGACCTGCGAAGCTGCTGTGACATGNTCCNGTTNCCNGTGGACTTNTTCTGCCNNGTTT  
 NNGCCACTGACAGCCGGGCANANANTACCGGCGCTGACGTGCCGGACTACCAGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006088 unedited  
 CTATGAAACGCGGCCGCTATCTAAGATCGAGTTTTTTTTTTTTTTTTTACACTATGAA  
 AATGCTTAAATGGATGGGTGCTTGTACCAGCATGGGATGTGCGACAGGGCAAAACAGCA  
 AGTGCACACAGTGGGACAGGCCACAGGACAGGCTGGGAGTGAATAAAGAGTTCACACTGC  
 TTCCTGCTTTCCCAAGTACTGAAGGCTCTAGGCCACCTCCTCCTCAGCCTCCTCCTCG  
 AACTCGCCCTCCTCCTCGGCTGTGGCATCTGGTACTGCTGGTACTCGGACACCAGGTCA  
 TTCATGTTGCTCTCGGCCTCGGTGAACCTCCATCTCGTCCATGCCCTCGCCCGTGTACCAT  
 TGCAAGAAGGCCCTTGCGCCGAACATGGCCGTGAAGTGTGCGGAGATGCGCTTGAACAGC  
 TCCTGGATGGCCGTGCTGTTGCCAATGAAGGTGGCGGACATTTTTAGCCCCGAGGTGGG  
 ATGTCACAGACAGCCGTTTTACATTGTTGGGGATCCACTCAACAAAATAGTGTGTTTT  
 TTGTTTTGGACATTAAGCATTGCTCATCCACCTCCTTCATGGACATGCGGCCCTGAAC  
 ACGGCGGCAACCGTCAGGTATCGGCCATGGCGGGGTGCGAGGCAGCCATCATGTTCTTG  
 GCATCAACATCTGCTGGGTGACCTCGGGCACGGTCAGCGCCCGTACTGCTGGTGGCC  
 CGGCTGGTCAATTGGGGCAAGCCGGGCATGAAGAATTGACAGCCGGGAAACGGGACCATG  
 TTACAGCCAGCTTCCGCANGTACCATTGATCTGCCCTGAGATGCGCAGCAGGTGGCGAC  
 CCACTCATGTAGCANACACAGTGTCAAGTACCATAGTGGCGTGGCACTTTAGGGTCT  
 GAACAATGCTACAGGCTCCTTATAAGCATAAGTCAGTCTGGTTTTACAACGTGTCATGA  
 AAAGCTGCTTGTAGGCTCCACATGGTCTGACTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006088

**Insert Size:**

1610 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\\_006088.5](#), [NP\\_006079.1](#)

**RefSeq Size:** 1591 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 10383

**UniProt ID:** [P68371](#)

**Cytogenetics:** 9q34.3

**Domains:** tubulin

**Protein Families:** Druggable Genome

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

**Gene Summary:** Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]