

## Product datasheet for **SC336456**

### beta IV Tubulin (TUBB4A) (NM\_001289123) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_001289123) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta IV Tubulin
Synonyms:	beta-5; DYT4; TUBB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336456 representing NM\_001289123.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGAAGGGGGCTGCGGACCGAGAAACTGAGCGGCTCCCGGGGGCGCAGGGACCGTGCTCCGCCGTC
TCCGCGCATCTTCCACCCTCGCCGCCAGCTCCCGCGCTCGTGCCACCAGCCGCCGCGTCCACC
CTCAGCGCCACCAGCATGCGGGAGATCGTGACCTGCAGGCCGGCCAGTGCGGCAACCAGATCGGGGCC
AAGTTTTGGGAGTTATCAGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGACAGTGAC
CTGCAACTGGAGAGGATCAACGTGTACTACAACGAGGCCACAGGAGAAATTATGTCCCCAGAGCGGTG
CTGGTGGACCTGGAACCCGGCACCATGGACTCTGTCCGTTCTGGCCCTTCGGTCAGATCTTTCCGCCG
GACAACTTCGTGTTTGGCAATCCGGAGCCGGCAACAACCTGGGCAAGGGGCACTACACGGAGGGCGCA
GAGCTGGTGGACGCTGCCTGGACGTAGTCGGAAGGAGGCCGAGAGCTGCGACTGCCTCAGGGCTTC
CAGCTGACCCACTCGCTGGGGGTGGCAGGGGTCCGGAATGGGCAGCTGCTCATCAGTAAGATCCGC
GAGGAGTTCAGACCGCATCATGAACACCTTCAGCGTGGTGCCTCGCCAAAGTGTGAGACAGGTG
GTGGAGCCCTACAACGCCAGCTGTCTGTGACACAGCTGGTGGAGAATACGGATGAGACCTACTGCATC
GACAACGAGGCACTCTACGACATCTGTTCCGCACCCTCAAGCTGACCACCCCACTACGGGGACCTC
AACCACTGGTGTGCGCCACCATGAGCGGGGTACCACTGCCTGCGCTTCCCGGCCAGCTGAAAGCC
GACCTGCGCAAGCTGGCCGTCAACATGGTTCCTTCCCTCGCCTGCATCTTTCATGCCCGGCTTCGCA
CCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCCCTGACGGTGCCTGAGCTACCCAGCAGATGTTT
GATGCCAAGAACATGATGGCGCGTGGACCCGCCACGGCCGCTACCTGACCTGGCCGCCGTGTTT
CGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGTAC
TTCGTGGAGTGGATCCCAACAACGTGAAGACGGCCGTGTCGACATCCCGCCCGCCGCTGAAGATG
GCCGCGACCTTATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTACG
GCCATGTTCCGGCGCAAGGCCTTCTTGCCTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTACC
GAGGCCGAGAGCAACATGAATGACCTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAG
GGCGAGTTCGAGGAGGAGCGGAGGAGGAGGTGGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001289123

**Insert Size:** 1488 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:	<a href="#">NM_001289123.1</a>
RefSeq Size:	2501 bp
RefSeq ORF:	1488 bp
Locus ID:	10382
UniProt ID:	<a href="#">P04350</a>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	54.5 kDa
Gene Summary:	<p>This gene encodes a member of the beta tubulin family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. Mutations in this gene cause hypomyelinating leukodystrophy-6 and autosomal dominant torsion dystonia-4. Alternate splicing results in multiple transcript variants encoding different isoforms. A pseudogene of this gene is found on chromosome X. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>