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Product datasheet for SC116314

beta IV Tubulin (TUBB4A) (NM_006087) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_006087) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta IV Tubulin
Synonyms:	beta-5; DYT4; TUBB4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC116314 sequence for NM_006087 edited (data generated by NextGen Sequencing)

ATGCGGGAGATCGTGCACCTGCAGGCCGGCCAGTGCGGCAACCAGATCGGGGCCAAGTTT
TGGGAGGTTATCAGTGACGAACATGGCATCGACCCCACAGGCACATACCATGGGGACAGT
GACCTGCAACTGGAGAGGATCAACGTGTACTACAACGAGGCCACAGGAGGAAATTATGTC
CCCAGAGCGGTGCTGGTGGACCTGGAACCCGGCACCATGGACTCTGTCCGTTCTGGCCCC
TTCGGTCAGATCTTTCGGCCGGACAACTTCGTGTTTGGCCAATCCGGAGCCGGCAACAAC
TGGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACGCTGTCCTGGACGTAGTC
CGGAAGGAGGCCGAGAGCTGCGACTGCCTTCAGGGCTTCCAGCTGACCCACTCGCTGGGG
GGTGGCACGGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTTCCCA
GACCGCATCATGAACACCTTCAGCGTGGTGCCCTCGCCCAAAGTGTCAGACACGGTGGTG
GAGCCCTACAACGCCACGCTGTCTGTGCACCAGCTGGTGGAGAATACGGATGAGACCTAC
TGCATCGACAACGAGGCACTCTACGACATCTGTTTCCGCACCCTCAAGCTGACCACCCCC
ACCTACGGGGACCTCAACCACCTGGTGTCGGCCACCATGAGCGGGGTCACCACCTGCCTG
CGCTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCAACATGGTCCCCTTT
CCTCGCCTGCACTTCTTCATGCCCGGCTTCGCACCCCTGACCAGCCGGGGCAGCCAGCAG
TACCGGGCCCTGACGGTGCCCGAGCTCACCCAGCAGATGTTCGATGCCAAGAACATGATG
GCGGCGTGCGACCCGCGCCACGGCCGCTACCTGACCGTGGCCGCCGTGTTCCGGGGCCGC
ATGTCCATGAAGGAGGTGGACGAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGCTAC
TTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGGC
CTGAAGATGGCCGCGACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGC
ATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCTTGCACTGGTACACGGGC
GAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTATCT
GAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGCGGAG
GAGGAGGTGGCCTAG

Clone variation with respect to NM_006087.2
774 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006087 unedited

NGGGGAGTCGGGATTTGTAACCGACTCATATAGGCGGAACGCCAATTCGCACGAGGGGAG
GGTGACCGGCCGTGACGCGTGCCCCGCCCGCTCATGGAGCGGCTCCCGGGGGCGCAGGGG
CCGTGCTCCGCCGTCTCCGCCGCATCTTCCACCCTCGCCGCCGCCGCAGCTCCCCGCGCT
CGTGCCACCGCCGCCGCGTCCACCCTCAGCGCTTTCTTCTGCGGGAGATCGTGCACCTGC
GGGGGGGCCANTGCGGCGACCAGATCGGGGCCAAGTTTTGGGAGGTGAGGAGTGACGAAC
ATGGCATCGGCCCCACAGGCACATACCATGGGGACAGTGACCTGGAACTGGAGAGGATCA
ACGTGTACTACAACGAGGCCACAGGAGGAAATTATGTGCCCCAGAGCGGTGCTGGTGGAC
CTGGAACCCGGCACCATGGACTCTGTGCCGTGTCTGGCCCCTTCGGTCAGATCTTTCGGG
CGGACAACTTCGTGTTTGGCCAATCCGGAGCCGGCGACAACTGGGCAAAGGGGCACTACA
CGGAGGGCGCANAGCTGGTGGACGCTGTCCTGGACGTANTCCGGAAGGAGGCCGAGAGCT
GCGACTGGCTTCAGGGCTTCCAGCTGACCCACTCGCTGGGGGGTGGCACGGGGTCCGGGA
TGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTTCCCAGACCGCATCATGAACACCTT
CAGCGTGGTGCCCTCGCCCAAAGTGTCAGACACGGTGGGTGGAGCCCCTACACGCCCCGC
TGTCTGTGCACCAGCGTGGGGGAGAAACNGGTGAGACCTACTGCATCGACAACGAGGCGC
TCTACGACATCTGTGTCCGCACCCTCAAGCTGACCACCCCACCTACGGGGACCTAACC

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_006087 unedited
CCCCCNNCCCTTTGCTTGGACCCGGCCGCATCTAAGATCGATTTTTTTTTTTTTTTTTTT
CCATGACAACAATTAATTTATTTATTGAGGGTGAGGCAGGCAAGCGGGGAGGGAGGGTAG
GGGTGACCTCTCTTCCTCACAGGCACCAGGCCTTGTTTCTCTCCCAGAAAGCTAAGGCCG
GCAGGGGCTGACGGGAGTGAGGCAGGGAGGATGCATGGGGCCTGTGGGAACCCAGAGAGA
AGCTGGGGTCAGAGGACGCACCTCCCCCTGGGGGGCGCGGCGGCCAATATTTCTCCCCCC
AACTATATTTTTCTAATTTTCAATCCTAATTTTCTCCCACCATCCTTCTCCCACCCACCC
CCCCCCCCCCCCCCCCCCCACTTCTCCCCCCCCCATACTCCCCCCCCCCACGCCCCTACCC
AATCCCTCCTCCCCCCATCACCCCCTCTACTTCCCCCCTCTACCTACTACCCCCCCCTCC
CCACTTCAACCTCCCCCCTCCCCTCCTCACCCTTTCATCACCCTCCCCTTTTTCTCCCAT
AACCCCCTTTTCCCTCTCCCCTCCTCTCTTACTTCCCTCCCTCCCCCCCCCCAACCCCCC
CCTATCTCCCCCTCACCCTTCTCTTCATTTTTTCCTTCCCCCCCTCCCCACTCCCACCCT
CCTCTCCCTCTTTTACCTTTTTCCTTCCCACCCCCACTATTCCACCTTTTACTTACCTTC
TCCTCCACACCCCCCCGTTTTCCACGTTCCCAAAACCTTCTCCCCCACCTCTTTCCTTCT
TTTCCTCTCCACTACCCCTTTCCCTCCATACCTCCTCCTTTTCTCCCCCCACGCTCCTCC
TCTTCCCTATAACCCCTATACCTCACCCCCGCCCTCTCATTCTCTTCCCCTTCCACATCC
CTCATCTACCATCCCACCCCCC
```

Restriction Sites: ECoRI-NOT

ACCN: NM_006087

Insert Size: 2440 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_006087.2, NP_006078.2

RefSeq Size: 2318 bp

RefSeq ORF: 1335 bp

Locus ID: 10382

UniProt ID: P04350

Cytogenetics: 19p13.3

Domains: tubulin

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

Gene Summary: 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]
Transcript Variant: This variant (3) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus, compared to isoform 1. Both variants 3 and 4 encode the same isoform 3.