

## Product datasheet for RC237803

### beta IV Tubulin (TUBB4A) (NM\_001289131) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_001289131) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUBB4A
Synonyms:	beta-5; DYT4; TUBB4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237803 representing NM_001289131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGACTCTGTCCGTTCTGGCCCTTCGGTCAGATCTTCGGCCGGACAACCTTCGTGTTGGCCAATCCG  
GAGCCGGCAACAACCTGGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACGCTGTCTGGACGT  
AGTCCGGAAGGAGCCGAGAGCTGCGACTGCCTTCAGGGCTTCAGCTGACCCACTCGCTGGGGGTGGC  
ACGGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTCCCAGACCGCATCATGAACA  
CCTTCAGCGTGGTGCCCTCGCCAAAGTGTGACACACGGTGGTGGAGCCCTACAACGCCACGCTGTCTGT  
GCACCAGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTCTACGACATCTGTTTC  
CGCACCCTCAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTGTCCGGCCACCATGAGCGGGG  
TCACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCAACATGGTTCC  
CTTTCCTCGCTGCATCTTTCATGCCCCGGCTTCGCACCCTGACCAGCCGGGGCAGCCAGCAGTACCGG  
GCCCTGACGGTGGCCGAGCTCACCCAGCAGATGTTTCGATGCCAAGAACATGATGGCGGCGTGGCAGCCG  
GCCACGGCCGCTACCTGACCGTGGCCGCGTGTTCGGGGCCGATGTCCATGAAGGAGGTGGACGAGCA  
GATGCTGAGCGTGCAGAGCAAGAACAGCAGCTACTTCGTGGAGTGGATCCCAACAACGTGAAGACGGCC  
GTGTGCGACATCCCGCCCCGCGCCTGAAGATGGCCGCGACCTTCATCGCAACAGCAGCGCCATCCAGG  
AGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCCTTCTGCACTGGTACAC  
GGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTATCTGAGTAC  
CAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGCGGAGGAGGAGGTGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237803 representing NM\_001289131  
 Red=Cloning site Green=Tags(s)

MDSVRSQPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVL DVVRKEAESCDCLQGFQLTHSLGGG  
 TGSGMGTL LISKIREFPDRIMNTFSVVPSPKVS DTVVEPYNATLSVHQLVENTDETYCIDNEALYDICF  
 RTLKLTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYR  
 ALTVPEL TQQMFDAKNMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTA  
 VCDIPPRGLKMAATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEY  
 QQYQDATAEEGEFEFEAEVEVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

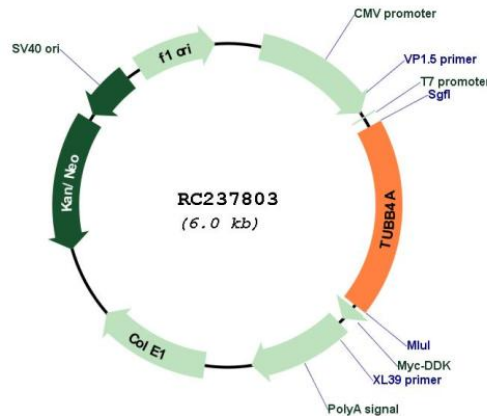
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289131

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289131.1</a> , <a href="#">NP_001276060.1</a>
<b>RefSeq Size:</b>	2507 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	10382
<b>UniProt ID:</b>	<a href="#">P04350</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Pathogenic Escherichia coli infection
<b>MW:</b>	42.1 kDa
<b>Gene Summary:</b>	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]