

## Product datasheet for **RC238521**

### beta IV Tubulin (TUBB4A) (NM\_001289127) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_001289127) 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



[View online »](#)

**ORF Nucleotide Sequence:**

>RC238521 representing NM\_001289127  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGAAGGGGGCTGCGGACCGAGAACTGAGGGACCGTCTCCGCCGCTCCGCCGCATCTTCCACCC  
 TCGCCCGCGCGAGCTCCCCGCGCTCGTGCCACCGCCGCGCTCCACCCTCAGCGCCACCGCCATGCG  
 GGAGATCGTGCACCTGCAGGCCGCGCAGTGCGGCAACCAGATCGGGGCCAAGTTTTGGGAGGTTATCAGT  
 GACGAACATGGCATCGACCCACAGGCACATACCATGGGGACAGTGACCTGCAACTGGAGAGGATCAACG  
 TGTACTACAACGAGGCCACAGGAGGAAATTATGTCCCAGAGCGGTGCTGGTGGACCTGGAACCCGGCAC  
 CATGGACTCTGTCCGTTTGGCCCTTCGGTGCAGATCTTTCGGCCGACAACCTCGTGTTTGGCCAAATCC  
 GGAGCCGCAACAACGGGCAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACGCTGTCTGGACG  
 TAGTCCGGAAGGAGGCCGAGAGTGCAGTGCCTTCAGGGCTTCCAGCTGACCCACTCGTGGGGGTGG  
 CACGGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTCCCAGACCGCATCATGAAC  
 ACCTTCAGCGTGGTGCCTCGCCCAAAGTGTGACACCGGTGGTGGAGCCCTACAACGCCACGCTGTCTG  
 TGCACCAGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTCTACGACATCTGTTT  
 CCGCACCTCAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTGTGGCCACCATGAGCGGG  
 GTCACCACCTGCCTGCGCTTCCCGGGCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCACATGGTTC  
 CCTTTCCTCGCCTGCACTTCTTCATGCCCGCTTCGCACCCCTGACCAGCCGGGGCAGCCAGCAGTACCG  
 GGCCCTGACGGTGCAGAGCTCACCCAGCAGATGTTTCATGCCAAGAATGATGGCGCGTGGACCCG  
 CGCCACGGCCGCTACCTGACCGTGGCCCGCTGTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGC  
 AGATGCTGAGCGTGCAGAGCAAGAACAGCAGTACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGC  
 CGTGTGCGACATCCCGCCCGCGCCTGAAGATGGCCGCGACCTTCATCGGCAACAGCACGGCCATCCAG  
 GAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGCGCAAGGCCTTCTTGCAGTGTACA  
 CGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTATCTGAGTA  
 CCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGGGAGGAGGTGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238521 representing NM\_001289127  
 Red=Cloning site Green=Tags(s)

MRRGAADRETEGPCSAVSAASSTLAAAAAPRARATAAATLSATAMREIVHLQAGQCGNQIGAKFWEVIS  
 DEHGIDPTGTYHGSDLQLERINVYNEATGGNYVPRAVLVDLEPGTMDSVRSGPFGQIFRPDNFVFGQS  
 GAGNNWAKGHYTEGAELVDAVLVVVKEAESDCLQGFQLTHSLGGTSGMGTLTISKIREEFPDRIMN  
 TFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPTTYGDLNHLVSATMSG  
 VTTCLRFPGQLNADLRKLAVNMPFPRHLFFMPGFAPLTSRGSQQYRALTVPELTQQMFDKNNMAACDP  
 RHGRYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTAVCDIPRGLKMAATFIGNSTAIQ  
 ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQYQDATAEEGEFEEEAEEEEVA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

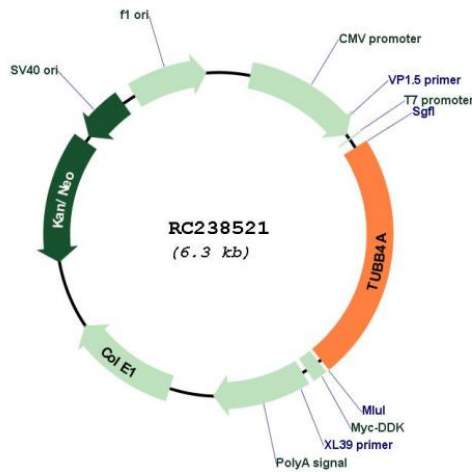
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001289127

ORF Size:

1467 bp

OTI Disclaimer:

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. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

<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_001289127.1</a> , <a href="#">NP_001276056.1</a>
<b>RefSeq Size:</b>	2483 bp
<b>RefSeq ORF:</b>	1470 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>	54.3 kDa
<b>Gene Summary:</b>	<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>