

Product datasheet for **RG238521**

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:	TurboGFP
Symbol:	TUBB4A
Synonyms:	beta-5; DYT4; TUBB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238521 representing NM_001289127.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGAAGGGGGGCTGCGGACCGAGAACTGAGGGACCGTCTCCGCCGTCTCCGCCCATCTTCCACC
CTCGCCGCCCGCAGCTCCCCCGCTCGTGCCACCGCCCGCGTCCACCCTCAGCGCCACCGCCATG
CGGGAGATCGTGCACTGCAGGCCGCGCAGTGCGGCAACCAGATCGGGGCCAAGTTTTGGGAGTTATC
AGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGGACAGTGACCTGCAACTGGAGAGGATC
AACGTGTACTACAACGAGGCCACAGGAGAAATTATGTCCCAGAGCGGTGCTGGTGACCTGGAACCC
GGCACCATGGACTCTGTCCGTTCTGGCCCTTCGGTCAGATCTTTCGGCCGGACAACCTCGTGTGGC
CAATCCGGAGCCGGAACAACCTGGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACGCTGTC
CTGGACGTAGTCCGAAGGAGGCCGAGAGCTGCGACTGCCTTCAGGGCTCCAGCTGACCCACTCGCTG
GGGGTGGCACGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTCCAGACCCG
ATCATGAACACCTTCAGCGTGGTCCCTCGCCAAAGTGTGACACCGGTGGTGGAGCCCTACAACGCC
ACGCTGTCTGTGACACGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTTAC
GACATCTGTTCCGCACCTCAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTGTCCGGCC
ACCATGAGCGGGGTACACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCC
GTCAACATGGTCCCTTCTCGCTGCACTTCTCATGCCCGGCTTCGCACCCCTGACCAGCCGGGGC
AGCCAGCAGTACCGGGCCCTGACGGTGCAGCTCACCAGCAGATGTTTCGATGCCAAGAACATGATG
GCGGGTGCAGCCCGCCACGGCCGCTACCTGACCGTGGCCCGCGTGTCCGGGGCCGATGTCATG
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AACACGTGAAGACGGCGGTGTGCGACATCCCGCCCGCGGCTGAAGATGGCCGCGACCTCATCGGC
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GCCTTCTGCACTGGTACACGGCGAGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATG
AATGACCTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAG
GCGGAGGAGGAGGTGGCC
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238521
 Blue=ORF Red=Cloning site Green=Tag(s)

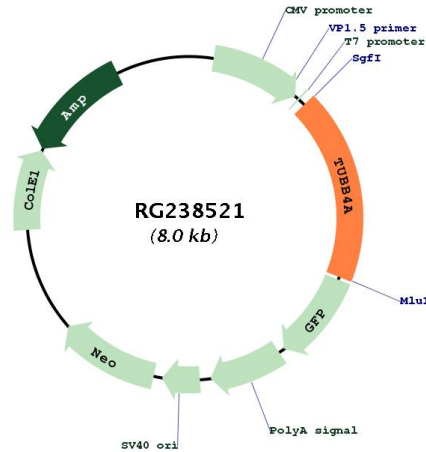
```
MRRGAADRETEGPCSAVSAASSTLAAAAAPRARATAAATLSATAMREIVHLQAGQCGNQIGAKFWEVI
SDEHGIDPTGYHGDSDLQLERINVYNEATGGNYVPRAVLVDLEPGTMDSVRSGPFGQIFRPDNFVFG
QSGAGNNWAKGHYTEGAELVDAVLVVRKEAESCDLQGFQLTHSLGGGTGSGMGTLLISKIREFPDR
IMNTFSVVPSPKVSQTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPTPYGDLNHLVSA
TMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDANKMM
AACDPRHGRLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTAVCDIPRGLKMAATFIG
NSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEGEFEEE
AEEEVA
```

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

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).

RefSeq: [NM_001289127.1](#), [NP_001276056.1](#)

RefSeq Size:	2483 bp
RefSeq ORF:	1470 bp
Locus ID:	10382
UniProt ID:	P04350
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	54.3 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>