

Product datasheet for **RG238562**

beta IV Tubulin (TUBB4A) (NM_001289123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_001289123) 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:

>RG238562 representing NM_001289123.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGAAGGGGGGCTCGGACCGAGAACTGAGCGGCTCCCGGGGGCGCAGGGACCGTGCTCCGCCGTC
TCCGCCGATCTTCCACCCTCGCCGCCCGCAGCTCCCGCGCTCGTGCCACCAGCCGCCGCGTCCACC
CTCAGCGCCACCAGCATGCGGGAGATCGTGCACCTGCAGGCCGGCCAGTGCGGCAACCAGATCGGGGCC
AAGTTTTGGGAGTTATCAGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGACAGTGAC
CTGCAACTGGAGAGGATCAACGTGTACTACAACGAGGCCACAGGAGAAATTATGTCCCCAGAGCGGTG
CTGGTGGACCTGGAACCCGGCACCATGGACTCTGTCCGTTCTGGCCCTTCGGTCAGATCTTTCGGCCG
GACAACTTCGTGTTTGGCAATCCGGAGCCGGCAACAACCTGGGCAAGGGGCACTACACGGAGGGCGCA
GAGCTGGTGGACGCTGCTCGGACGTAGTCCGGAAGGAGGCCGAGAGCTGCGACTGCCTTACGGGCTTC
CAGCTGACCCACTCGCTGGGGGTGGCAGGGGTCCGGAATGGGCAGCTGCTCATCAGTAAGATCCGC
GAGGAGTCCCAGACCGCATCATGAACACCTTCAGCGTGGTGCCTCGCCAAAGTGTGACACAGGTG
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GACAACGAGGCACTCTACGACATCTGTTCCGCACCCTCAAGCTGACCACCCCACTACGGGGACCTC
AACCACCTGGTGTGCGCCACCATGAGCGGGGTACCCACCTGCCTGCGCTTCCCGGCCAGCTGAAAGCC
GACCTGCGCAAGCTGGCCGTCAACATGGTTCCTTCTCGCCTGCATCTTTCATGCCCGGCTTCGCA
CCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCCCTGACGGTGCCCGAGCTCACCCAGCAGATGTTT
GATGCCAAGAACATGATGGCGCGTGGACCCGCCACGGCCGCTACCTGACCGTGGCCGCCGTGTTT
CGGGCCGATGTCCATGAAGGAGGTGGACGAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGTAC
TTCGTGGAGTGGATCCCAACAACGTGAAGACGGCCGTGTGCGACATCCCGCCCGCCGCTGAAGATG
GCCGCGACCTTATCGGCAACAGCAGCCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACG
GCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTACC
GAGGCCGAGAGCAACATGAATGACCTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAG
GGCGAGTTCGAGGAGGAGCGGAGGAGGAGGTGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

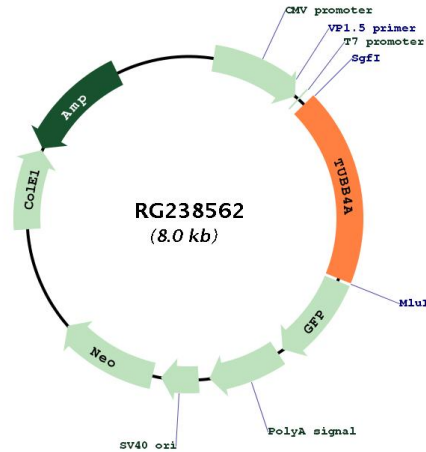
>Peptide sequence encoded by RG238562
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MRRGAADRETERLPGAQGPCSAVSAASSTLAAAAAPRARATAASTLSATAMREIVHLQAGQCGNQIGA
KFWEVISDEHGIDPTGYHGDSDLQLERINVYNEATGGNYVPRAVLVDLEPGTMDSVRSRGPFGQIFRP
DNFVFGQSGAGNNAKGHYTEGAELVDAVL DVVRKEAESCDLQGFQLTHSLGGGTGSGMGTLLISKIR
EEFPDRIMNTFSVVPSPKVS DTVVEPYNATLSVHQLVENTDETYCIDNEALYDIFRTLKLTPTTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMF
DAKNMMAACDPRHGRYLTVA AVFRGRMSMKEVDEQMLS VQSKNSSYFVEWIPNNVKTA VCDIPRGLKM
AATFIGNSTAIQELFKRI SEQFTAMFRRKAF LHWYTGEGDMEFE TEAESNMNDLVSEYQQYQDATAEE
GEFEEEEEEVA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_001289123

ORF Size: 1485 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_001289123.1](#), [NP_001276052.1](#)

RefSeq Size:	2501 bp
RefSeq ORF:	1488 bp
Locus ID:	10382
UniProt ID:	P04350
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	54.9 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>