

Product datasheet for **RG203945**

beta IV Tubulin (TUBB4A) (NM_006087) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_006087) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta IV Tubulin
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:

>RG203945 representing NM_006087
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATCGGGGAGATCGTGCACCTGCAGGCCGCCAGTGCGCCAACAGATCGGGGCCAAGTTTTGGGAGTTA
 TCAGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGACAGTGACCTGCAACTGGAGAGGAT
 CAACGTGTACTACAACGAGGCCACAGGAGAAATTATGTCCCAGAGCGGTGCTGGTGGACCTGGAACCC
 GGCACCATGGACTCTGTCCGTTCTGGCCCTTCGGTCAGATCTTTCGGCCGGACAACCTCGTGTGGCC
 AATCCGGAGCCGCAACAACCTGGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGTGGACGCTGTCT
 GGACGTAGTCCGGAAGGAGGCCGAGAGCTGCGACTGCCTTCAGGGCTTCCAGCTGACCCACTCGTGGGG
 GGTGGCACGGGGTCCGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTCCCAGACCCGATCA
 TGAACACCTTCAGCGTGGTCCCTCGCCAAAGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACGCT
 GTCTGTGCACAGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTCTACGACATC
 TGTTTCCGCACCCTCAAGCTGACCACCCACCTACGGGGACCTCAACCCTGGTGTGGCCACCATGA
 GCGGGGTACCACCTGCCTGCGCTTCCCGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCACAT
 GTTTCCCTTCTCGCTGCACTTCTTCATGCCCGGCTTCGCACCCTGACCAGCCGGGGCAGCCAGCAG
 TACCGGGCCCTGACGGTGCCTGAGCTACCCAGCAGATGTTTCGATGCCAAGAACATGATGGCGGCGTGGC
 ACCCGGCCACGGCCGCTACCTGACCGTGGCCGCCGTGTTCCGGGGCCGATGTCATGAAGGAGGTGGA
 CGAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAG
 ACGGCCGTGTGCGACATCCCGCCCGCGGCTGAAGATGGCCGCGACCTTCATCGGCAACAGCACGGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCCGCAAGGCCCTTTCGACTG
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTATCT
 GAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGCGAGGAGGAGGTGG
 CC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203945 representing NM_006087
 Red=Cloning site Green=Tags(s)

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLERINVYYNEATGGNYVPRAVLVDLEP
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLDVVRKEAESDCDCLQGFQLTHSLG
 GGTGSGMGTLLISKIREFFPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDI
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMPFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFDKNNMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVK
 TAVCDIPRGLKMAATFIGNSTAIQELFKRISEQFTAMFRRKAFKWHYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATAEEGEFEFEAEVEVA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006087

ORF Size: 1332 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).

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_006087.4](#)

RefSeq Size: 2318 bp

RefSeq ORF: 1335 bp

Locus ID: 10382

UniProt ID: [P04350](#)

Cytogenetics: 19p13.3

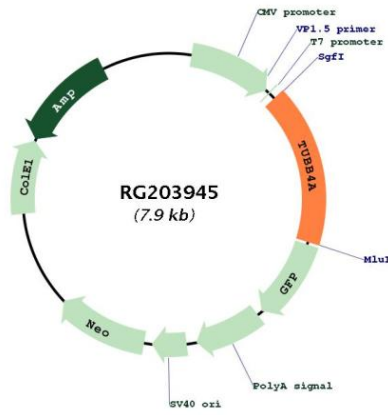
Domains: tubulin

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]

Product images:



Circular map for RG203945