

Product datasheet for **RG237802**

beta IV Tubulin (TUBB4A) (NM_001289130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta IV Tubulin (TUBB4A) (NM_001289130) 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)
ORF Nucleotide Sequence:	>RG237802 representing NM_001289130. Blue=ORF Red=Cloning site Green=Tag(s)

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TTGCACTGGTACACGGGGGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGAC
CTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGGCGAG
GAGGAGGTGGCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237802
 Blue=ORF Red=Cloning site Green=Tag(s)

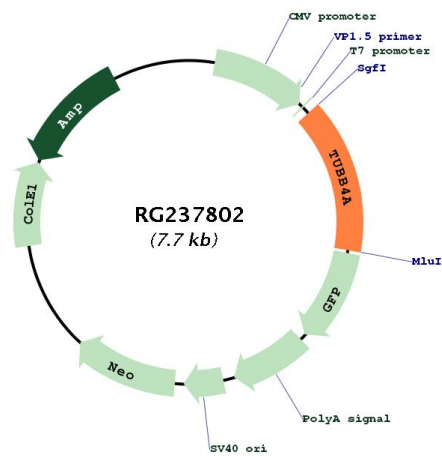
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 CFRTLKLTPTTYGDLNHLVSATMSGVTTCLRFPGLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQ
 QYRALTVPELTQQMFDANKMMAACDPRHG RYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNN
 VKTAVCDIPPRGLKMAATFIGNSTAIQELFKRISEQFTAMFRRKAF LHWYTGEGMDEMEFTEAESNMND
 LVSEYQQYQDATAEEGEFEEEEEEVA
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001289130
ORF Size:	1116 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_001289130.1 , NP_001276059.1
RefSeq Size:	2540 bp
RefSeq ORF:	1119 bp
Locus ID:	10382
UniProt ID:	P04350
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	42.1 kDa
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]