

Product datasheet for **MG207181**

Tubb3 (NM_023279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb3 (NM_023279) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubb3
Synonyms:	3200002H15Rik; M(beta)3; M(beta)6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207181 representing NM_023279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGGAGATCGTGCACATCCAGGCCGGCCAGTGCGCCAACAGATAGGGGCCAAGTCTGGGAGGTCA
 TCAGCGATGAGCACGGCATAGACCCAGCGGCAACTATGTAGGGACTCAGACCTGCAGCTGGAGCGCAT
 CAGCGTATACTACAATGAGGCCCTCTCTACAAGTATGTGCCAGGGCCATTCTGGTGGACTTGGAACCT
 GGAACCATGGACAGTGTTCTGGTCTGGCGCTTTGGACACCTATTCAGGCCGACAACCTTTATCTTTGGTC
 AGAGTGGTGTGGCAACAAGTGGCCAAAGGGCACTATACGGAGGGCGCGGAGCTGGTGGACTCAGTCTT
 AGATGTCGTGCGGAAAGAGTGTGAGAATTGTGACTGCCTGCAGGGCTTCCAGCTGACACACTCACTGGGT
 GGGGGCACAGGCTCAGGCATGGCACACTGCTCATCAGCAAGGTGCGTGAGGAGTACCCCGACCGCATCA
 TGAACACCTTCAGCGTGGTGCCTTACCCTAAAGTGTGCGACACTGTGGTGGAGCCCTACAACGCCACCT
 GTCATCCACCAGCTAGTGGAGAACACAGACGAGACCTACTGCATCGACAATGAAGCCCTCTACGACATC
 TGCTTCCGACCCCTCAAGCTGGCCACACCCACCTATGGGGACCTCAACCACCTTGTGTCTGCCACCATGA
 GTGGAGTCAACACCTCCCTTCGATTCCCTGGTCACTCAATGCCGACCTCCGCAAGCTGGCTGTGAACAT
 GGTGCCGTTCCACGCTCTCCACTTCTTCATGCCCGGCTTCGCCCACTTACAGCCCGGGGAGCCAGCAG
 TACCGTGCCCTGACGGTGCCTGAGCTCACGCAGCAGATGTTTCGATGCCAAGAACATGATGGCTGCCTGTG
 ACCCGCGCCACGGTGCCTACCTGACCGTGGCCACTGTCTCCGTGGGCGCATGTCTATGAAGGAGGTGGA
 CGAGCAGATGTGGCCATCCAGAGTAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTCAAG
 GTAGCCGTGTGTGACATCCCACCCCGTGGGCTCAAATGTCATCCACCTTCAATTGGCAACAGCACGGCCA
 TCCAGGAGCTGTTCAAACGCATCTCGGAGCAGTTCACAGCCATGTTCCGGCGCAAGGCCCTCCTGCACGTG
 GTACACGGGCGAGGGCATGGATGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCC
 GAGTACCAGCAGTACCAGGACGCCACTGCGGAGGAGGAGGGGAGATGTGAAGATGATGACGAGGAAT
 CGGAAGCCAGGGGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207181 representing NM_023279
 Red=Cloning site Green=Tags(s)

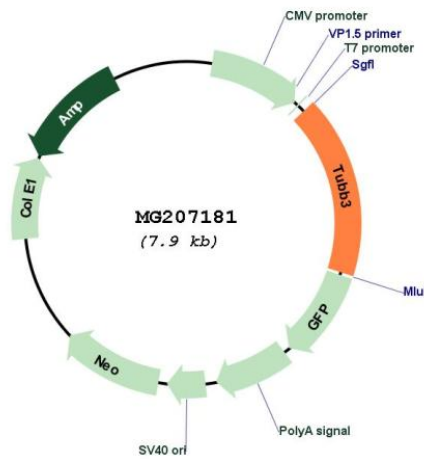
MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPSGNYVGDSLQLERISVYYNEASSHKYVPRAILVDLEP
 GTMDSVRSAGAFGHLFRPDNFIQSGSAGANNWAKGHYTEGAELVDSVLDVVRKECENCDCQLQGFQLTHSLG
 GGTGSGMGTLISKVVREEYPDRIMNTFSVVPSPKVSDDTVVEPYNATLSIHQLVENTDETYCIDNEALYDI
 CFRTLKLATPTYGDLNHLVSATMSGVTTSLRFPQGLNADLRKLAVNMPFPRLHFFMPGFAPLTARGSQQ
 YRALTVPELTQQMFDANKMMAACDPRHGRYLTVATVFRGRMSMKEVDEQMLAIQSKNSSYFVEWIPNNVK
 VAVCDIIPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATAEEEGEMYEDDDEESEAQGPK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_023279

ORF Size: 1350 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:	<ol style="list-style-type: none">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_023279.3
RefSeq Size:	1758 bp
RefSeq ORF:	1353 bp
Locus ID:	22152
UniProt ID:	Q9ERD7
Cytogenetics:	8 E1
Gene Summary:	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. TUBB3 plays a critical role in proper axon guidance and maintenance. Binding of NTN1/Netrin-1 to its receptor UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed:28483977). Plays a role in dorsal root ganglion axon projection towards the spinal cord (By similarity).[UniProtKB/Swiss-Prot Function]