

Product datasheet for **MG207177**

Tuba3b (NM_009449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba3b (NM_009449) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tuba3b
Synonyms:	M[a]7; Tuba7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207177 representing NM_009449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTGAGTGTATCTCTATCCACGTGGGGCAGGCAGGTGCCAGATTGGCAATGCCTGCTGGGAGCTGT
 ACTGCCTTGAACATGGTATTTCAGCCTGACGGTCAGATGCCAAGCGACAAAACCATTGGCGCGGGGACGA
 CTCATTCAACACATTCTTCAGTGAGACTGGAGCCGCAAGCACGTGCCAGGGCAGTGTTTGTGGACCTG
 GAGCCACTGTGGTCGATGAAGTACGCACCGAACCTACCGCAGCTTTTCCACCAGAGCAGCTCATCA
 CTGGGAAGGAAGATGCAGCCAACAATTATGCCAGAGGTCATTATACCATTGGCAAGGAGATTGTTGACCT
 GGTCTGGACCGGATCCGAAAACCTGGCCGATCTGTGCACGGGACTGCAGGGCTTCTCATCTTCCACAGC
 TTTGGAGTGGCACAGGGTCTGGTTCATCGCTGCTGATGGAGCGGCTTTCAGTGGACTATGGCAAGA
 AGTCCAAGCTGGAGTTTCCATCTACCCAGCCCCAGGTTTCTACAGCGGTCGTGGAGCCTTACAACCT
 CATCTGACCACGCACACCCTGGAGCATTCCGACTGTGCTTTCATGGTGGATAACGAAGCCATCTAC
 GACATCTGCCGGCGCAACCTGGATATTGAACGTCCACATACACCAACCTCAACCGTCTGATTGGGCAGA
 TTGTGTCATCCATCACAGCCTCCCTAAGGTTTCGATGGCGCCCTGAATGTGGACTTAACAGAATCCAGAC
 CAACCTGGTGCCATACCCTCGCATCCACTTCCACTGGCGACCTATGCCCCAGTCATCTCTGCTGAGAAG
 GCATACCATGAGCAGCTGTCAAGTACGAGAGATCAACATGCTTGCCTCGAGCCAGCCAATCAGATGGTCA
 AGTGTGACCCCTCGCCATGGCAAATACATGGCCTGCTGCATGTTGTACCGGGGGATGTGGTTCCAAAGA
 TGTCAATGCGGCTATTGCCACCATCAAGACCAAGCGCACCATCCAGTTTGTAGATTGGTGGCCGACTGGA
 TTTAAGGTGGGTATTAACCTACCAGCCTCTACTGTGGTCCCTGGGGGAGACCTGGCCAAGGTGCAGCGGG
 CTGTGTGCATGCTGAGCAATACCACGGCCATCGCAGAGGCCTGGCCCGCCTGGACCACAATTTGACCT
 CATGTACGCCAAGCGGGCTTTGTGATTGGTACGTGGGAGAAGGCATGGAGGAAGGGGAGTTCTCCGAG
 GCCCGGAGGACCTGGCAGCGCTGGAGAAGGACTATGAAGAGGTGGGCGTGGATTCCGTGGAAGCAGAGG
 CAGAAGAAGGGGAGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207177 representing NM_009449
 Red=Cloning site Green=Tags(s)

MRECISIHVQAGVQIGNACWEL YCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL
 EPTVVDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIVDLVLDRIKRLADLCTGLQGFLIFHS
 FGGGTGSGFASLLMERLSVDYGGKSKLEFAIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY
 DICRRNLDIRPTYTNLNRLLIGQIVSSITASLRFDGALNVDL TEFQTNLVPYPRIFPLATYAPVISA EK
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCMLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTG
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNNTTAIAEAWARLDHKFDL MYAKRAVHVHVVYEGEMEEGEFSE
 AREDLAAL EKDYEEVGVDSVEAEAEEGEEY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009449

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:

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_009449.3](#), [NP_033475.1](#)

RefSeq Size: 1573 bp

RefSeq ORF: 1353 bp

Locus ID: 22147

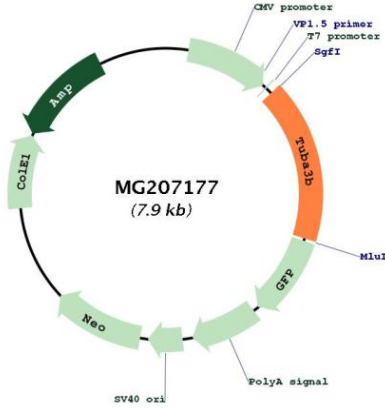
UniProt ID: [P05214](#)

Cytogenetics: 6 G3

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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207177