

Product datasheet for **MG207204**

Tuba1b (BC002219) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba1b (BC002219) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tuba1b
Synonyms:	Tuba2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207204 representing BC002219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTCCAGATCGGCAATGCCTGCTGGGAGCTCT
 ACTGCCTGGAACATGGCATCCAGCCTGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGA
 CTCTTCAACACCTTCTTCAGTGAGACAGGAGCTGGCAAGCATGTGCCCCGGGCAGTGTTTCGTAGACCTG
 GAACCCACGGTCAATCGATGAAGTTCGCACTGGCACCTACCGCCAGCTCTCCATCCTGAGCAGCTCATCA
 CAGGCAAGGAGGATGCTGCCAATAACTATGCCCGTGGCCACTACACCATTGGCAAGGAGATCATTGACCT
 TGTCTGGACAGGATTCGCAAGCTGGCTGACCAGTGCACGGGTCTCCAGGGCTTCTTGGTTTTCCACAGC
 TTTGGCGGGGAACTGGCTCTGGCTTACCTCCCTGCTGATGGAGCGGCTCTCTGTGGATTACGAAAGA
 AGTCCAAGCTGGAGTTCTCCATTTACCCAGCCCCCAGGTTTCCACTGCTGTGGTTGAGCCCTACAATTC
 CATCTCACCCACACCACCCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTAT
 GACATCTGTCGTAGAAACCTCGACATTTAGCGCCCAACCTACACCAACCTTAACCGCCTTATTAGCCAGA
 TTGTGTCTTCCATCACTGCTTCCCTCAGATTTGATGGGGCCCTGAATGTTGATCTGACAGAATCCAGAC
 CAACCTGGTACCCTACCCTCGCATCCACTTCCCTCTGGCCACTTATGCCCTGTCATCTCTGCTGAGAAA
 GCCTACCATGAGCAGCTTCTGTAGCAGAGATCAACCAATGCCTGCTTTGAGCCAGCAACCATGAGTGA
 AATGTGACCCCTCGCCATGGTAAATACATGGCTTGTGCTGCTATACCGTGGTGTGTTCCCAAAGA
 TGTCAATGCTGCCATTGCCACCAATCAAGACCAAGCGCAGCATCCAGTTTGTAGACTGGTGGCCACTGGC
 TTCAAGTTGGCATTAAATACCAGCCTCCACTGTGGTACCCGGTGGTACCTGGCCAAGGTGCAGAGAG
 CTGTGTGCATGCTGAGCAACACCACGCCATTGCTGAGGCCTGGGCTCGCCTAGATCACAAGTTTGATCT
 GATGTATGCCAAGCGTGCCTTTGTGCACTGGTATGTGGGTGAGGGCATGGAGGAGGTGAGTTCTCTGAG
 GCCCGTGAAGGACATGGCTGCCCTAGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTGAAGGCGAGG
 GGGAGGAAGAAGGAGAGGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207204 representing BC002219
 Red=Cloning site Green=Tags(s)

MRECISIHVQAGVQIGNACWEL YCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL
 EPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHS
 FGGGTGSGFTSLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY
 DICRRNLDIRPTYTNLNRLLISQIVSSITASLRFDGALNVDL TEFQTNLVPYPRIFPLATYAPVISA
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRSIQFVDWCPTG
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDL MYAKRAFVHWYVGEEMEEGEFSE
 AREDMAALEKDYEEVGVDSVEGEGEEEGEEY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<u>BC002219</u> , <u>AAH02219</u>
RefSeq Size:	1616 bp
RefSeq ORF:	1355 bp
Locus ID:	22143
Cytogenetics:	15 F1
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]