

Product datasheet for **MG207110**

Tubb2a (NM_009450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb2a (NM_009450) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubb2a
Synonyms:	M(beta)2; Tubb2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207110 representing NM_009450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGAGATCGTGCACATCCAGGCGGGCCAGTGTGGCAACCAGATCGGCGCTAAGTTTTGGGAGGTGA
 TAAGCGATGAGCATGGCATCGACCCCACTGGCAGTTACCATGGCGACAGTGACTTGCAGCTGGAGAGGAT
 CAATGTGTACTACAATGAAGCTGCTGGCAACAATATGTACCTCGGGCCATCCTAGTGGACCTGGAGCCG
 GGCACCATGGACTCAGTGAGGTGGGACCATTGGCCAGATCTTCAGGCCAGACAACCTTTGTGTTGGCC
 AGAGTGGTGCAGGAAATAACTGGGCAAAAGGCCACTACACAGAGGGGGCCGAGCTGGTGGACTCTGTCT
 AGATGTGGTGAGGAAGGAGTCTGAAAGCTGTGACTGTCTCCAGGGTTTCCAGCTGACCCACTCACTGGGG
 GGAGGCACTGGCTCAGGCATGGGACCCTGCTCATCAGCAAGATCAGAGAGGAGTACCCAGACCCGATCA
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTCTCTGACACTGTGGTGGAGCCCTATAATGCCACCT
 CTCAGTGCACCAGCTGGTAGAGAACACAGATGAAACCTATTCCATTGACAATGAGGCTCTGTATGACATC
 TGTTTCCGCACCCTGAAGCTGACCACACCACCTATGGCGATCTCAACCCTGGTGTGACCCACCATGA
 GTGGAGTGACCACCTGCCTGCGCTTCCCAGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCCGTGAACAT
 GGTGCCATTCCCACGCTGCACTTCTTCATGCCAGGCTTTCACCTCTGACCAGCCGGGGCAGCCAGCAG
 TACCGAGCCCTGACGGTGCCTGAGCTGACCCAGCAGATGTTGACTCCAAGAACATGATGGCTGCCTGCG
 ACCCTCGCCATGGCCGCTACCTGACCGTGGCCGCCATTTCCGTGGCCGATGTCATGAAAGAGGTGGA
 TGAGCAGATGCTCAACGTGCAGAACAAGAAGCAGCAGCTACTTCGTGGAGTGGATCCCCAACACGCTCAAG
 ACGGCCGTGTGTGACATCCCTCCTCGTGGCCTCAAGATGTCAGCCACCTTCATTGGCAACAGCACTGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCGGAGCAGTTCAGTCCATGTTCCGGCGCAAGGCTTTCCTGCAGT
 GTACACGGGTGAGGGCATGGACGAGATGGAGTTACCGAGGCGGAGAGCAACATGAATGACCTGGTGTCT
 GAGTACCAGCAGTACCAGGATGCCACGGCTGATGAGCAGGGCGAGTTCGAGGAGGAAGAGGTGAAGATG
 AGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207110 representing NM_009450
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYYNEAAGNKYVPRAILVDLEP
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG
 GGTGSGMGTLISKIREEYPDRIMNTFSVMPSPKVSDDTVEPYNATLSVHQLVENTDEYDNEALYDI
 CFRTLKLTPTYGDLNHLVLSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFDKSNMMAACDPRHGRLTVAAIFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVK
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATADEQGEFEFEFEDEA

TRTRPLE - GFP Tag - V

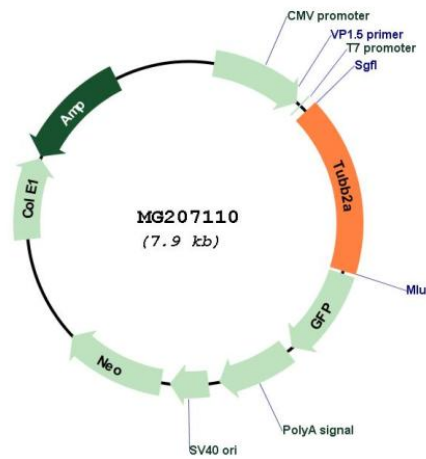
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009450

ORF Size: 1335 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:	<u>NM_009450.1</u> , <u>NP_033476.1</u>
RefSeq Size:	1615 bp
RefSeq ORF:	1338 bp
Locus ID:	22151
UniProt ID:	<u>Q7TMM9</u>
Cytogenetics:	13 14.03 cM
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 (By similarity).[UniProtKB/Swiss-Prot Function]