

Product datasheet for **MR220476**

Tubb2b (NM_023716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb2b (NM_023716) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb2b
Synonyms:	2410129E14Rik; brdp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220476 representing NM_023716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGAGAGATCGTGACATTCAGGCGGGCCAGTGCGCCAACAGATCGGTGCCAAGTTTTGGGAGGTCA
 TCAGTGATGAGCATGGTATAGACCCCACTGGAAGTTACCATGGAGACAGTGATTTGCAACTGGAAAAGAAAT
 CAATGTATACTACAATGAAGCAACTGGTAATAATATGTGCCTAGGGCCATCCTGGTGGACCTGGAGCCA
 GGCACAATGGACTCAGTCAGGTCTGGACCATTTGGGCAGATCTTCAGGCCGGACAACCTCGTGTTTCGGCC
 AGAGTGGTGCAGGAAATAACTGGGCAAAGGGCCACTACACAGAGGGGGCCGAGCTGGTGGACTCTGTCT
 GGACGTGGTGAAGGAGTCAAGAACTGTGACTGTCTTCAGGGCTTCAGCTGACCCACTCACTGGGG
 GGAGGCACTGGCTCAGGCATGGGACCTGCTCATCAGCAAGATCAGAGAGGAGTACCCAGACCCGCATCA
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTCTCTGACACTGTGGTGGAGCCCTATAATGCCACCT
 CTCAGTGCACCAGCTGGTAGAGAACACAGATGAAACCTACTGCATCGATAATGAGGCTCTGTATGACATC
 TGTTTCCGCACCCTGAAGCTGACCACACCACCTATGGCGATCTCAACCACCTGGTGTGACGCCACATGA
 GTGGAGTGACCACCTGCCTGCGCTTCCCAGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCCGTGAACAT
 GGTGCCATTTCCACGCTGCACTTCTTCATGCCAGGCTTTGCACCTCTGACCAGCCGGGGCAGCCAGCAG
 TACCGAGCCCTGACGGTGCCTGAGCTGACCCAGCAGATGTTGACTCCAAGAACATGATGGCTGCCTGCG
 ACCCTCGCCATGGCCGCTACCTGACCGTGGCCGCCATTTCCGTGGCCGCATGTCATGAAGGAGGTGGA
 TGAGCAGATGCTCAACGTGCAGAAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTCAAG
 ACGGCCGTGTGTGACATCCCTCCTCGTGGCCTCAAGATGTCAGCCACCTTCATTGGCAACAGCACTGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCGGAGCAGTTCAGTCTATGTTCCGGCGCAAGGCTTTCCTGCACTG
 GTACACGGGTGAGGGCATGGACGAGATGGAGTTACCGAGGCGGAGAGCAACATGAATGACCTGGTGTCT
 GAGTACCAGCAGTACCAGGATGCCACGGCTGATGAGCAGGGCGAGTTCGAGGAGGAAGAGGGCGAGGATG
 AGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220476 representing NM_023716
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYNEATGNKYVPRAILVDLEP
 GTMDSVRSRGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSdTVEPYNATLSVHQLVENTDETYCIDNEALYDI
 CFRTLKLTPTYGDLNHLVSATMSGVTTCLRFPGLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFD SKNMMAACDPRHG RYLTVAAIFRGRMSMKEVDEQMLNVQNKSSYFVEWIPNNVK
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATADEQGEFEFEDEGEDEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9036_c10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_023716

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:

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_023716.2](#), [NP_076205.1](#)

RefSeq Size: 1922 bp

RefSeq ORF: 1338 bp

Locus ID: 73710

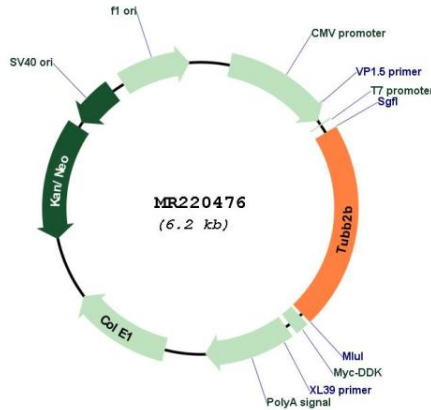
UniProt ID: [Q9CWF2](#)

Cytogenetics: 13 A3.3

MW: 50.4 kDa

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. Plays a critical role in proper axon guidance in both central and peripheral axon tracts. Implicated in neuronal migration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220476