

Product datasheet for **RN202710**

Tubb2b (NM_001013886) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb2b (NM_001013886) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tubb2b
Synonyms:	RGD1309427; Tubb2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202710 representing NM_001013886
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGAGAGATCGTGCACATTCAGGCGGGCCAGTGCGCCAACAGATCGGTGCCAAGTTTTGGGAGGTCA
TCAGTGATGAGCATGGTATCGATCCCAGTGAAGTTACCATGGAGACAGTGATTTGCAACTGGAAAAGAAAT
CAATGTATACTACAACGAAGCAACTGGTAATAAATATGTGCCTCGGGCCATCCTGGTGGACCTGGAGCCT
GGCACCATGGACTCTGTGAGATCCGGACCATTGGGCAGATCTTCAGGCCAGACAACCTCGTGTTCGGCC
AGAGTGGTGCAGGAAATAACTGGGCAAAGGGCCACTACACAGAGGGTGCCGAGCTGGTGGACTCTGTCT
GGACGTGGTAAGGAAGGAGTCAGAAAGCTGTGACTGTCTCCAGGGCTTCAGCTGACCCACTCACTGGGG
GGAGGCACTGGCTCAGGCATGGGACCCTGCTCATCAGCAAGATCAGAGAAGAGTACCCAGACCGCATCA
TGAACACCTTCAGCGTCATGCCCTCACCAAGGTCTCTGACACTGTGGTGGAGCCCTATAATGCCACCT
CTCCGTGCACCAGCTGGTAGAGAACACAGATGAAACCTACTGCATCGACAATGAGGCTCTGTATGACATC
TGCTTCCGCACCCTGAAGCTGACCACACCACCTATGGCGATCTCAACCCTGGTGTGACGCCACATGA
GTGGAGTGACCACCTGCCTGCGCTTCCCTGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCTGTGAACAT
GGTGCCTTTCCACGCTGCACTTCTTCATGCCAGGCTTCGCACCTTGACCAGCAGGGGCGCCAGCAG
TACCGAGCCCTGACAGTGCCCGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCTGCCTGCG
ACCCACGCCATGGCCGCTACCTGACCGTAGCCGCCATTTCCGGGGCCCGCATGTCATGAAGGAGGTGGA
TGAGCAGATGCTCAACGTGCAGAAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAAATGTGAAG
ACGGCCGTGTGTGACATCCCTCCTCGTGGCCTCAAGATGTCAGCCACCTTCATTGGCAACAGCACCGCCA
TCCAGGAGCTGTTCAAGCGCATCTCGGAGCAGTCACTGCCATGTTGAGGCGCAAGGCTTTCCTGCACTG
GTACACGGGCGAGGGCATGGACGAGATGGAGTTACCGAGGCGGAGAGCAACATGAATGACCTGGTGTCT
GAGTACCAGCAGTACCAGGATGCCACGGCTGATGAGCAGGGCGAGTTCGAGGAGGAGGAGGGCGAGGATG
AGGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013886

Insert Size: 1338 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001013886.2](#), [NP_001013908.2](#)

RefSeq Size: 1700 bp

RefSeq ORF: 1338 bp

Locus ID: 291081

UniProt ID: [Q3KRE8](#)

Cytogenetics: 17p12

Gene Summary: Tubulin is the major constituent of microtubules (PubMed:19465910). 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 (By similarity).[UniProtKB/Swiss-Prot Function]