

## Product datasheet for **RR202710**

### **Tubb2b (NM\_001013886) Rat Tagged ORF Clone**

#### **Product data:**

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



[View online »](#)

**ORF Nucleotide Sequence:**

>RR202710 representing NM\_001013886  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGAGAGATCGTGCACATTCAGGCGGGCCAGTGCGCCAACAGATCGGTGCCAAGTTTTGGGAGGTCA  
 TCAGTGATGAGCATGGTATCGATCCCCTGGAAGTTACCATGGAGACAGTGATTTGCAACTGGAAAAGAAAT  
 CAATGTATACTACAACGAAGCAACTGGTAATAATATGTGCCTCGGGCCATCCTGGTGGACCTGGAGCCT  
 GGCACCATGGACTCTGTGAGATCCGGACCATTTGGGCAGATCTTCAGGCCAGACAACCTCGTGTTCGGCC  
 AGAGTGGTGCAGGAAATAACTGGGCAAAGGGCCACTACACAGAGGGTGCCGAGCTGGTGGACTCTGTCT  
 GGACGTGGTAAGGAAGGAGTCAGAAAGCTGTGACTGTCTCCAGGGCTTCAGCTGACCCACTCACTGGGG  
 GGAGGCACTGGCTCAGGCATGGGACCCTGCTCATCAGCAAGATCAGAGAAGAGTACCCAGACCGCATCA  
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTCTCTGACACTGTGGTGGAGCCCTATAATGCCACCT  
 CTCGGTGCACCAGCTGGTAGAGAACACAGATGAAACCTACTGCATCGACAATGAGGCTCTGTATGACATC  
 TGCTTCCGCACCCTGAAGCTGACCACACCACCTATGGCGATCTCAACCACCTGGTGTGAGCCACATGA  
 GTGGAGTGACCACCTGCCTGCGCTTCCCTGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCTGTGAACAT  
 GGTGCCTTCCCACGCTGCACTTCTTCATGCCAGGCTTCGCACCTTGACCAGCAGGGGCGCCAGCAG  
 TACCGAGCCCTGACAGTGCCCGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCTGCCTGCG  
 ACCCAGCCATGGCCGCTACCTGACCGTAGCCGCCATTTCCGGGGCCGCATGTCCATGAAGGAGGTGGA  
 TGAGCAGATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAAATGTGAAG  
 ACGGCCGTGTGTGACATCCCTCCTCGTGGCCTCAAGATGTCAGCCACCTTCATTGGCAACAGCACCGCCA  
 TCCAGGAGCTGTTCAAGCGCATCTCGGAGCAGTTCAGTCCATGTTGAGGCGCAAGGCTTTCCTGCACTG  
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTACCGAGGCGGAGAGCAACATGAATGACCTGGTGTCT  
 GAGTACCAGCAGTACCAGGATGCCACGGCTGATGAGCAGGGCGAGTTCGAGGAGGAGGAGGGCGAGGATG  
 AGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202710 representing NM\_001013886  
 Red=Cloning site Green=Tags(s)

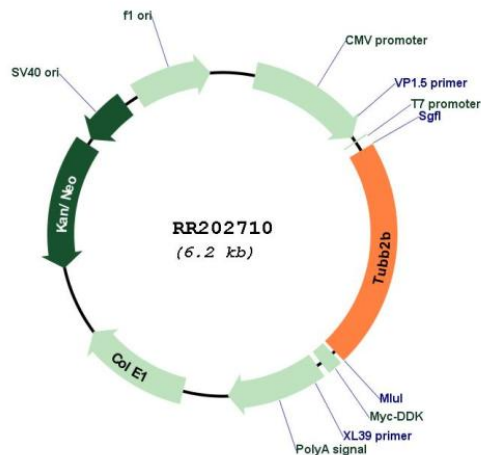
MREIVHIQAGQCGNQIGAKFWEVISDEHGDIPDTSYHGDSDLQLERINVYYNEATGNKYVPRAILVDLEP  
 GTMDSVRSQPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSQTVVEPYNATLSVHQLVENTDETYCIDNEALYDI  
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQMFDKSNMMAACDPRHGRYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK  
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATADEQGEFEFEDEGEDEA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001013886

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001013886.2</a></u> , <u><a href="#">NP_001013908.2</a></u>
<b>RefSeq Size:</b>	1700 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	291081
<b>UniProt ID:</b>	<u><a href="#">Q3KRE8</a></u>
<b>Cytogenetics:</b>	17p12
<b>MW:</b>	50 kDa
<b>Gene Summary:</b>	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]