

Product datasheet for **RR205138**

Tubb5 (NM_173102) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb5 (NM_173102) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb5
Synonyms:	Tubb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR205138 representing NM_173102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGAAATCGTGCACATCCAGGCCGGACAGTGTGGCAACCAGATCGGTGCTAAGTTCTGGGAGGTGA
 TAAGCGATGAACACGGCATCGACCCACCGGCACCTACCACGGAGACAGCGACTTGCAGCTGGACCGAAT
 CTCTGTGTACTACAATGAAGCTACAGGTGGCAAGTATGTCCTCGAGCTATCTTAGTGGATCTAGAACC
 GGGACTATGGACTCCGTTGCTCAGGTCCTTTGGCCAGATCTTCAGACCGGACAACCTTTGTTTTGGTC
 AGTCTGGGCGAGGCAACAACCTGGGCTAAGGGTCACTACACAGAGGGAGCTGAGCTGGTTGACTCTGTCTT
 GGATGTGGTGGGAAGGAGGCGGAGAGCTGTGACTGCCTGCAAGGCTTTCAGCTGACCCATTGCTGGGT
 GGAGGCACGGCTCTGGCATGGCACCCCTGCTCATCAGCAAGATTCGAGAAGAATACCCCGACCGCATCA
 TGAACACCTTTAGCGTGGTGCCTCACCAAAGTGTCTGACACCGTGGTTGAGCCCTACAACGCCACCT
 GTCGTCACACAGTTGGTAGAGAACACAGATGAGACCTACTGCATTGACAACGAGGCCCTCTACGACATC
 TGCTTCGGTACCCTTAAGCTCACACGCCAACCTACGGAGACCTGAACCATCTCGTCTCTGCCACCATGA
 GCGGTGTACACCTGCCTCCGTTTCCCGGCCAGCTGAACGCCGACCTTCGGAAGCTGGGTGTCAACAT
 GGTGCCCTTCCCGCTCTCCACTCTTTATGCCTGGCTTTGCCCTCTCACACGCGTGGAGCCAGCAG
 TACCGGGCCCTACTGTGCCTGAACTCACCCAGCAGGTCTTCGACGCCAAGAATGATGGCCGCTGTG
 ACCCACGCCACGGCCGGTACCTCACGGTTGCGGCTGTCTCCGTGGACGGATGTCCATGAAGGAGGTAGA
 TGAGCAAATGCTCAACGTGCAGAATAAGAATAGCAGCTACTTCGTGGAATGGATCCCCAACACGTCAAG
 ACGGCTGTCTGTGACATCCACCGCGAGGCCTCAAGATGGCAGTACCTTCATCGGAAACAGCACGGCCA
 TCCAGGACTCTTCAAGCGCATCTCTGAGCAGTTTACGGCAATGTTCCGTCCGGAAGGCTTCTCCACTG
 GTACACGGGTGAGGGCATGGACGAGATGGAGTTTACCGAAGCTGAGAGCAACATGAATGACCTCGTCTCT
 GAGTATCAGCAGTACCAGGACGCCACCGAGAAGAGGAAGAGGATTTCCGAGAGGAGGCAGAAGAAGAGG
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205138 representing NM_173102
 Red=Cloning site Green=Tags(s)

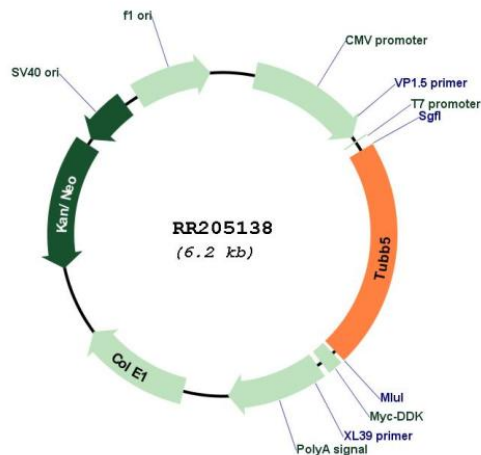
MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRISVYYNEATGGKYVPRAILVDLEP
 GTMDSVRSQPFQIFRPDNFVFGQSGAGNNAWKHYTEGAELVDSVLDVVRKEAESCDLQGFQLTHSLG
 GGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVSQTVVEPYNATLSVHQLVENTDETYCIDNEALYDI
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPQQLNADLRKLAVMVFPFRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQVDAKNMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVK
 TAVCDIPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQQYQDATAEEEEEDFGEEAEEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_173102

ORF Size: 1332 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_173102.2](#), [NP_775125.1](#)

RefSeq Size: 2395 bp

RefSeq ORF: 1335 bp

Locus ID: 29214

UniProt ID: [P69897](#)

Cytogenetics: 20p12

MW: 49.7 kDa

Gene Summary: beta 5-tubulin; polymerizes to form microtubules; member of a family of structural proteins [RGD, Feb 2006]