

Product datasheet for **RR203612**

Tubb4a (NM_080882) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubb4a (NM_080882) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubb4a
Synonyms:	Tubb4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR203612 representing NM_080882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATCGGGAAATCGTGCACCTGCAAGCCGGCAATCGGCCAACAGATCGGGGCCAAGTTCTGGGAGGTCA
 TCAGTGATGAGCATGGCATCGACCCCACTGGGACCTATCATGGGACAGTGACCTCCAGCTGGAGAGAAT
 TAATGTCTACTACAACGAGGCCACAGGTGAAATTATGTTCCAGAGCCGTGCTGGTTGACCTAGAACCT
 GGCACCATGGACTCCGTCGCTCTGGCCCTTTGGCCAGATCTTCGGCCAGACAACCTTTGTGTTGGTC
 AATCTGGAGCAGGCAACAACCTGGGCCAAGGGTCATTACACTGAGGGCGCAGAGTTAGTGGATGCAGTCT
 GGACGTGGTGGCAGGCTGAAAGCTGCGACTGTCTCCAGGGCTTCAGCTCACCCACTCGCTCGGA
 GGTGGCACAGGCTCAGGGATGGGACCTTGCTCATCAGCAAGATCCGGGAGGAGTCCCAGACAGGATCA
 TGAATACGTTACGCTAGTGCCATCGCCAAGGTGTCTGACACGGTGGTGAACCCTACAATGCCACACT
 GTCTGTGCATCAACTGGTGGAGAACACTGATGAGACCTACTGTATCGACAATGAGGCCTGTACGACATC
 TGCTTCGGCACTCTCAAGCTGACCACGCCACCTACGGGGACCTCAACCCTAGTGTGGCCACCATGA
 GTGGGGTGACCACCTGCCTGCGCTTTCCCGCCAGCTCAATGCAGATCTACGCAAGCTGGCTGTGAACAT
 GGTGCCGTTCCCCGCTCTCCACTTCTTCATGCCAGGATTGCGACCCTTGACCAGCAGGGGCGCCAGCAG
 TACCGAGCCCTCACCGTTCCTGAGCTGACCCAACAGATGTTTCGATGCTAAGAACATGATGGCCGCGTGCG
 ACCCGAGACACGGTTCGCTACCTGACCGTGGCTGCTGTCTTCGAGGACGGATGTCATGAAGGAGGTGGA
 CGAGCAGATGCTAAGTGTGACAGCAAGAACAGCAGCTACTTCGTTGAGTGGATCCCCAACACGTCAG
 ACAGCCGTGTGTGACATCCCACCCGAGGCCTGAAGATGGCAGCCACCTTCATCGGCAATAGCACAGCCA
 TCCAGGAGCTGTTCAAACGCATCTCAGAGCAGTTCACCGCCATGTTTAGGCGCAAGGCCTCCTGCATTG
 GTACACGGGTGAAGGCATGGACGAGATGGAGTTTACGGAAGCAGAGAGCAATATGAACGACCTGGTGTCC
 GAGTACCAGCAGTATCAGGATGCCACGGCTGAAGAGGGCGAGTTCGAAGAGGAGGCCGAAGAGGAGGTGG
 CT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203612 representing NM_080882
 Red=Cloning site Green=Tags(s)

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLERINVYYNEATGGNYVPRAVLVDLEP
 GTMDSVRSQPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLDVVRKEAESCDLQGFQLTHSLG
 GGTGSGMGTLLISKIREEFPDRIMNTFSVVPSPKVSQTVVEPYNATLSVHQLVENTDETYCIDNEALYDI
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPQQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFDANKMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVK
 TAVCDIPRGLKMAATFIGNSTAIQELFKRISEQFTAMFRRKAFLLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATAEEGEFEFEAEVEVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

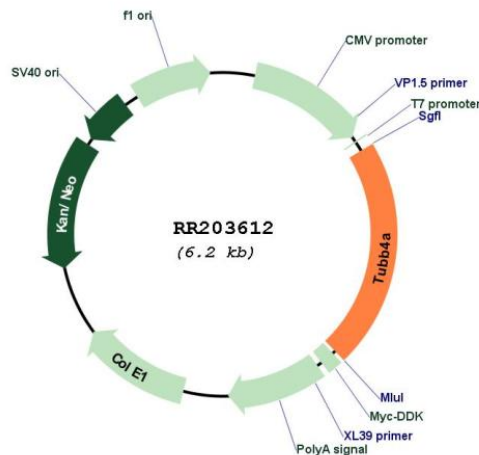
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_080882

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_080882.1](#), [NP_543158.1](#)

RefSeq Size: 2086 bp

RefSeq ORF: 1335 bp

Locus ID: 29213

Cytogenetics: 9q12

MW: 49.6 kDa

Gene Summary: human homolog is a subunit of microtubules which is abundant in developing brain [RGD, Feb 2006]