

Product datasheet for **RR205743**

Tuba1b (NM_001044270) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tuba1b (NM_001044270) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tuba1b
Synonyms:	RGD1565476
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205743 representing NM_001044270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGCGTGAGTGTCATCTCCATCCACGTGCGCCAGGCTGGTGTCCAGATCGGCAATGCCTGCTGGGAGCTCT
 ACTGCCTGGAACATGGCATCCAGCCTGATGGCCAGATGCCAAGCGACAAGACCATTGGGGGAGGAGATGA
 CTCCTTCAACACCTTCTTCAGTGAGACAGGAGCTGGCAAGCACGTGCCCCGGGCGGTGTTCTGACACCTG
 GAACCCACAGTTATTGATGAAGTTCGCACTGGCACCTACCGCCAGCTCTTCCACCCAGAGCAGCTCATCA
 CAGGCAAGGAAGATGCTGCCAATAACTATGCCCGTGGCCACTACACCATTGGCAAGGAGATCATTGACCT
 TGTCTTGGACAGAATTCGCAAGCTGGCTGACCAAGTGCACCGGTCTCCAGGGCTTCTTGGTTTTCCACAGC
 TTTGGTGGGGAACTGGCTCTGGGTTCACCTCCCTGCTGATGGAGAGGCTCTCTGTCGACTACGGAAAGA
 AGTCCAAGCTGGAGTTCTCCATTTACCCAGCCCCCAGGTTTCCACTGCTGTGGTTGAGCCCTACAATTC
 CATCCTCACCACCACACCACCCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTAT
 GACATCTGTCGTAGAAACCTCGACATTGAGCGCCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGA
 TTGTGTCTTCCATCACTGCTTCCCTCAGATTTGATGGGGCCCTGAATGTTGATCTGACAGAATTCAGAC
 CAACCTGGTGGCCTACCTCGCATCCACTTCCCTCTGGCCACTTATGCCCTGTCTCTGCTGAGAAA
 GCCTACCATGAACAGCTTTCTGTAGCAGAGATCAACATGCCTGCTTTGAGCCAGCCAACCATGAGTGA
 AATGTGACCTCGCCATGGTAAATACATGGCTTGTGCTGCTGTACCGTGGTGTGTGGTCCCCAAGA
 TGTCATGCTGCCATTGCCACCATCAAGACCAAGCGCAGCATCCAGTTTGTGGACTGGTGGCCCACTGGC
 TTCAAGGTTGGCATTAAATACCAGCCTCCCACTGTGGTACCTGGTGGCGACCTGGCCAAGGTCAGAGAG
 CTGTGTGTATGCTGAGCAACACCACAGCATTGCTGAGGCTTGGGCTCGCCTGGATCACAAGTTTGATCT
 GATGTATGCCAAGCGTGCCTTTGTGCACTGGTACGTGGGTGAGGCATGGAGGAGGGAGAGTTCTCTGAG
 GCCCGTGAGGACATGGCTGCCCTAGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTGGAGGGTGAAG
 GTGAGGAAGAAGGAGAGGAATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205743 representing NM_001044270
 Red=Cloning site Green=Tags(s)

MRECISIHVGQAGVQIGNACWELYLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL
 EPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKLADQCTGLQGFLVFHS
 FGGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMVDNEAIY
 DICRRNLDIERPTYTNLNLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIFPLATYAPVISAIEK
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRSIQFVDWCPTG
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDLMYAKRAFWHWYVGEEMEEGEFSE
 AREDMAALEKDYEVEGVDSVEGEGEEGEEY

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001044270

ORF Size: 1353 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_001044270.2](#), [NP_001037735.1](#)

RefSeq Size: 1645 bp

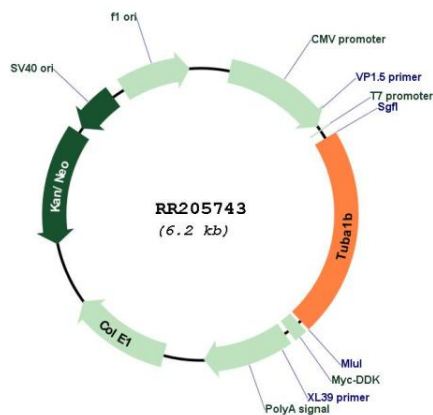
RefSeq ORF: 1356 bp

Locus ID: 500929

UniProt ID: [Q6P9V9](#)

Cytogenetics:	7q36
MW:	50.2 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR205743