

## Product datasheet for **RR214069**

### **Tuba1c (NM\_001011995) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tuba1c (NM_001011995) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tuba1c
Synonyms:	Tuba6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR214069 representing NM\_001011995  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTTCAGATCGGCAATGCCTGCTGGGAGCTCT  
 ACTGCCTGGAACATGGCATCCAGCCTGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGA  
 CTCTTCAACACCTTCTTCACTGAGACAGGAGCTGGCAAGCACGTGCCCCGGGCGGTGTTCTGACACCTG  
 GAACCCACAGTTATTGATGAAGTTCGAAGTGGCACCTACCGCCAGCTCTTCCACCCAGAGCAGCTCATCA  
 CAGGCAAGGAAGATGCTGCCAATAACTATGCCCGTGGCCACTACACCATTGGCAAGGAGATCATTGACCT  
 TGTCTTGGACAGAATTCGCAAGCTGGCTGACCAGTGCACGGGTCTCCAGGGCTTCTTGGTTTTCCACAGC  
 TTTGGTGGGGAACTGGCTCTGGGTTACCTCCCTGCTGATGGAGAGGCTCTCTGTGACTACGGAAAGA  
 AGTCCAAGCTGGAGTTCTCCATTACCCAGCCCCCAGGTTTCCACTGCTGTGGTTGAGCCCTACAATTC  
 CATCTCACCCACACCACCCTGGAGCACTCTGATTGTGCCTCATGGTAGACAATGAGGCCATCTAT  
 GACATCTGTCGTAGAAACCTCGACATTGAGCGCCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGA  
 TTGTGCTTCCATCACTGCTTCCCTCAGATTTGATGGGGCCCTGAATGTTGATCTGACAGAATCCAGAC  
 CAACCTGGTGCCCTACCTCGAATCCACTTCCCTCTGGCCACTTATGCCCTGTCATCTCTGCTGAGAAA  
 GCCTACCATGAGCAACTACAGTAGCAGAGATCAACATGCCTGCTTTGAGCCAGCCAACCATGAGTGA  
 AATGTGACCCCTCGCCATGGTAAATACATGGCTTGTGCTGCTGTACCGTGGTGTGTTGTTCCCAAGGA  
 TGTCAATGCTGCCATTGCCACCATCAAGACCAAGCGTACCATCCAGTTTGTGGACTGGTGGCCCACTGGC  
 TTCAAGGTTGGCATTAAATACCAGCCTCCACTGTGGTACCTGGTGGCGACCTGGCCAGGGTGCAGAGAG  
 CTGTGTATGCTGAGCAACACCACAGCATTGCTGAGGCTGGGCTCGCCTGGATCACAAGTTTGATCT  
 GATGTATGCCAAGCGTGCCTTTGTGCACTGGTATGTGGGTGAGGCATGGAGGAGGGGGAGTTCTCTGAG  
 GCCCGTAGGATATGGCTGCCCTAGAGAAGGATTATGAGGAGGTTGGGGCAGATAGTCTGAAGGAGACG  
 ATGAGGGTGAAGAATAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214069 representing NM\_001011995  
 Red=Cloning site Green=Tags(s)

MRECISIHVQAGVQIGNACWELYCLEHGIQPDGQMPDQKTIIGGGDSFNFTFFSETGAGKHVPRAVFDL  
 EPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHS  
 FGGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY  
 DICRRNLDIERPTYTNLNRLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIFPLATYAPVISA EK  
 AYHEQLTVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVPKDVNAAIATIKTKRTIQFVDWCPTG  
 FKVGINYPPTVVPGGDLARVQRAVCMLSNTTAAEAWARLDHKFDLMYAKRAVHWYVVGEMEEGEFSE  
 AREDMAALEKDYEEVGDASAEGDDEGE EY

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

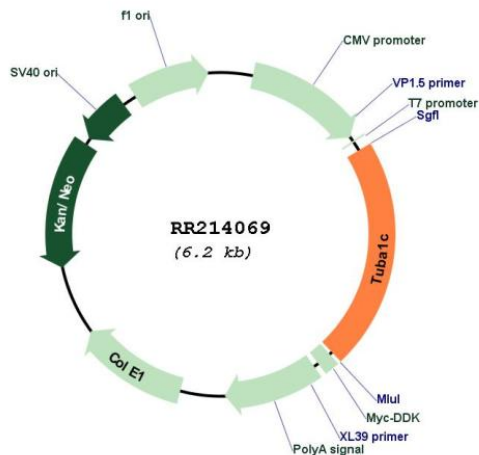
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001011995

ORF Size: 1347 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\\_001011995.1](#), [NP\\_001011995.1](#)

**RefSeq Size:** 1559 bp

**RefSeq ORF:** 1350 bp

**Locus ID:** 300218

**UniProt ID:** [Q6AYZ1](#)

**Cytogenetics:** 7q36

**MW:** 49.9 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]