

Product datasheet for **RC210432**

TUB (NM_003320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUB (NM_003320) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUB
Synonyms:	rd5; RDOB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210432 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCCAGGACACCTTTGCCTTCTTCTGGGTTTCTTCTTTGCCGAGACAGGATTTTGTCCAG
 GAGGCACTCCCTGGCCCATGGGATCTCAGCATTCAAAGCAGCACAGGAAACCTGGGCCCTGAAACGGGG
 CCACCGAAGAGATCGGAGAAACAACAGGAGGAAGTACTGGAAGGAAGGAAGGAGATCGCTCGTGTCTTA
 GATGATGAGGGCAGAAACCTGAGGCAGCAGAAGCTTGATCGGCAGCGGGCCCTGCTGGAGCAGAAGCAGA
 AGAAGAAGCGCCAGGAGCCCTGATGGTGCAGGCCAATGCAGATGGGCGGCCCGGAGCCGGCGGGCCCG
 GCAGTCAGAGGAACAAGCCCCCTGGTGGAGTCTACCTCAGCAGCAGTGGCAGCACCAGCTACCAAGTT
 CAAGAGGCCGACTCACTCGCCAGTGTGCAGCTGGGAGCCACGCGCCCAACAGCACCAGCTTCAGCCAAGA
 GAACCAAGGCGGCAGCTACAGCAGGGGGCCAGGGTGGCGCCGCTAGGAAGGAGAAGAAGGAAAGCACA
 AGGCACCAGCGGGCCAGCAGCACTGGCAGAAGACAAGTCTGAGGCCCAAGGCCAGTGCAGATTCTGACT
 GTGGGCCAGTCAGACCACGCCCAGGACGAGGGGAGACGGCAGCTGGTGGGGGCAACGGCCAGCGGGC
 AGGATCTCCGTGCCACGATGCAGAGGAAGGCATCTCCAGCAGCATGAGCTTTGACGAGGATGAGGAGGA
 TGAGGAGGAGAATAGCTCCAGCTCCTCCAGCTAAATAGTAACACCCGCCCCAGCTCTGCTACTAGCAGG
 AAGTCCGTGAGGAGGCAGCCTCAGCCCTAGCCCAACAGCTCCAGAGCAACCAAGTGGACGTTGAGGTCC
 AGGATCTTGAGGAGTTTGCACTGAGGCCGGCCCCCAGGGTATCACCATCAAATGCCGCATCACTCGGGA
 CAAGAAAGGGATGGACCGGGGCATGTACCCACCTACTTTCTGCACCTGGACCGTGAGGATGGGAAGAAG
 GTGTTCTCTCGCGGGAAGGAAGAGAAAGAAGAGTAAACTTCCAATTACCTCATCTCTGTGGACCCAA
 CAGACTTGTCTCGAGGAGGGGACAGCTATATCGGAAACTGCGGTCCAATTGATGGGCACCAAGTTCAC
 TGTTTATGACAATGGAGTCAACCCCTCAGAAGGCCCTCATCTCCACTTTGGAAGTGAACCTTACGTCAG
 GAGCTGGCAGCTGTGTGTACGAGACAAACGTCTTAGGCTTCAAGGGGCCTCGGAAGATGAGCGTGATTG
 TCCAGGCATGAACATGGTTTCATGAGAGAGTCTCTATCCGCCCCGCAACGAGCATGAGACACTGCTAGC
 ACGCTGGCAGAATAAGAACACGGAGAGTATCATCGAGCTGCAAAACAAGACACCTGTCTGGAATGATGAC
 ACACAGTCTATGTACTCAACTTCCATGGGCGCGTCACACAGGCCTCCGTGAAGAACTTCCAGATCATCC
 ATGGCAATGACCCGACTACATCGTGATGCAGTTTGGCCGGGTAGCAGAGGATGTGTTACCATGGATTA
 CAACTACCGCTGTGTGCACTGCAGGCCTTGCCATTGCCCTGTCCAGCTTCGACAGCAAGCTGGCGTGC
 GAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210432 protein sequence
 Red=Cloning site Green=Tags(s)

MGARTPLPSFWVSFFAETGILFPGGTPWPMGSQHSKQHRKPGPLKRGHRRDRRTTRRKYWKEGREIARVL
 DDEGRNLRQQKLDQRALLEQKQKKRQEPLMVQANADGRPRSRRARQSEEQAPLVESYLSSSGSTSYQV
 QEADSLASVQLGATRPTAPASAKRTKAAATAGGQGAARKEKKGKHGTSIPAALAEKSEAQGPVQILT
 VGQSDHAQDAGETAAGGGERPSGQDLRATMQRKGISSSMSFDEDEDEEENSSSSQLNSNTRPSSATSR
 KSVREAASAPSTAPEQPVQDVEVDLEEFALRPAPQGITIKRITRDKKGMDRGMYPTYFLHLDREDGKK
 VFLLAGRRKKSKTSNYLISVDPTDLRGGDSYIGKLRNLMTGKFTVYDNGVNPQKASSSTLESGLRQ
 ELAAVCYETNVLFKGPVKMSVIVPGMNMVHERVSIRPRNEHETLLARWQNKNTESIIELQNKTPVWNDD
 TQSYVLNFHGRVTQASVKNFQIIHGNDPDYIVMQFGRVAEDVFTMDYNYPLCALQAFIALSSFDKSLAC
 E

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6677_f06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003320

ORF Size: 1683 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003320.4](#), [NP_003311.2](#)

RefSeq Size: 6432 bp

RefSeq ORF: 1686 bp

Locus ID: 7275

UniProt ID: P50607

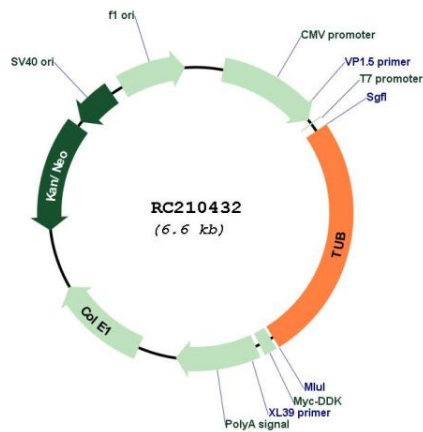
Cytogenetics: 11p15.4

Domains: Tub

MW: 62.1 kDa

Gene Summary: This gene encodes a member of the Tubby family of bipartite transcription factors. The encoded protein may play a role in obesity and sensorineural degradation. The crystal structure has been determined for a similar protein in mouse, and it functions as a membrane-bound transcription regulator that translocates to the nucleus in response to phosphoinositide hydrolysis. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210432