

Product datasheet for **RG210432**

TUB (NM_003320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUB (NM_003320) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUB
Synonyms:	rd5; RDOB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210432 representing NM_003320
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGCCAGGACACCTTTGCCTTCTTTCTGGGTTTCTTTCTTTGCCGAGACAGGATTTTGTCCAG
 GAGGCACTCCCTGGCCCATGGGATCTCAGCATTCAAAGCAGCACAGGAAACCTGGGCCCTGAAACGGGG
 CCACCGAAGAGATCGGAGAACAAACCAGGAGGAAGTACTGGAAGGAAGGAAGGGAGATCGCTCGTGTCTTA
 GATGATGAGGGCAGAAACCTGAGGCAGCAGAAGCTTGATCGGCAGCGGGCCCTGCTGGAGCAGAAGCAGA
 AGAAGAAGCGCCAGGAGCCCTGATGGTGCAGGCCAATGCAGATGGGCGGCCCGGAGCCGGCGGGCCCG
 GCAGTCAGAGGAACAAGCCCCCTGGTGGAGTCTACCTCAGCAGCAGTGGCAGCACCAGCTACCAAGTT
 CAAGAGGCCGACTCACTCGCCAGTGTGCAGCTGGGAGCCACGCGCCCAACAGCACCAGCTTCAGCCAAGA
 GAACCAAGGCGGCAGCTACAGCAGGGGGCCAGGTTGGCGCCGCTAGGAAGGAGAAGAAGGGAAAGCACAA
 AGGCACCAGCGGCCAGCAGCACTGGCAGAAGACAAGTCTGAGGCCCAAGGCCCAGTGCAGATTCTGACT
 GTGGGCCAGTCAGACCACGCCCAGGACGAGGGGAGACGGCAGCTGGTGGGGCGAACGGCCAGCGGGC
 AGGATCTCCGTGCCACGATGCAGAGGAAGGCATCTCCAGCAGCATGAGCTTTGACGAGGATGAGGAGGA
 TGAGGAGGAGAATAGCTCCAGCTCCTCCAGCTAAATAGTAACACCCGCCCCAGCTCTGCTACTAGCAGG
 AAGTCCGTGAGGAGGCAGCCTCAGCCCTAGCCCAACAGCTCCAGAGCAACCAAGTGGACGTTGAGGTCC
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 ACACAGTCCTATGTACTCAACTTCCATGGGCGCGTCACACAGGCCTCCGTGAAGAACTTCCAGATCATCC
 ATGGCAATGACCCGACTACATCGTGATGCAGTTTGGCCGGGTAGCAGAGGATGTGTTACCATGGATTA
 CAACTACCGCTGTGTGCACTGCAGGCCTTGGCATTGCCCTGTCCAGCTTCGACAGCAAGCTGGCGTGC
 GAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

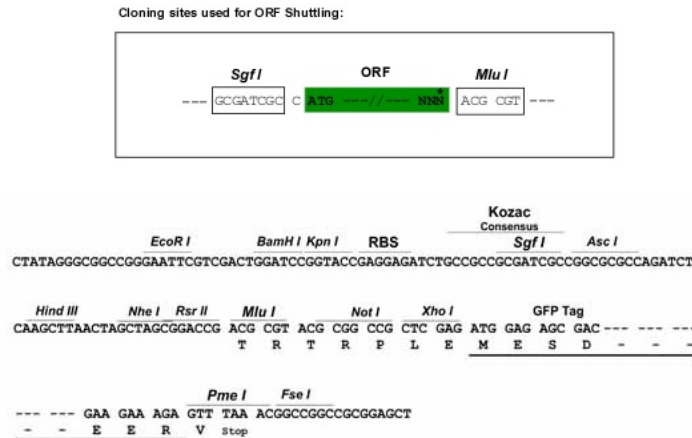
>RG210432 representing NM_003320
 Red=Cloning site Green=Tags(s)

MGARTPLPSFWVSFFAETGILFPGGTPWPMGSQHSKQHRKPGPLKRHRRDRRTTRRKYWKEGREIARVL
 DDEGRNLRQQKLDRQRALLEQKQKKRQEPLMVQANADGRPRSRARQSEEQAPLVESYSSSGSTSYQV
 QEADSLASVQLGATRPTAPASAKRTKAAATAGGQGAARKEKKGKHKGTSGPAALAEKSEAQGPVQILT
 VGQSDHAQDAGETAAGGGERPSGQDLRATMQRKGISSSMSFDEDEDEEENSSSSQLNSNTRPSSATSR
 KSVREAASAPSTAPEQPVQVQDLEEFALRPAPQGITIKRITRDKKGMDRGMYPTYFLHLDREDGKK
 VFLLAGKRKKSKTSNYLISVDPTDLRGGDSYIGKLRNLMGTFKTVYDNGVNPQKASSTLESGLRQ
 ELAAVCYETNVLGFGPRKMSVIVPGMNVHERVSI RPRNEHETLLARWQNKNTESIIEQLNKTPVWDD
 TQSYVLNFHGRVTQASVKNFQIIHGNDPDYIVMQFGRVAEDVFTMDYNYPLCALQAFIALSSFDSKLAC
 E

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

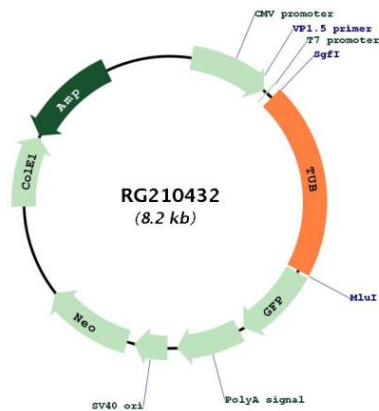
Cloning Scheme:


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.
RefSeq:	NM_003320.4 , NP_003311.2
RefSeq Size:	6429 bp
RefSeq ORF:	1686 bp
Locus ID:	7275
UniProt ID:	P50607
Cytogenetics:	11p15.4

Domains: Tub

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 RG210432