

Product datasheet for **SC111699**

TUB (NM_003320) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TUB
Synonyms:	rd5; RDOB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003320, the custom clone sequence may differ by one or more nucleotides

ATGGGGGCCAGGACACCTTTGCCTTCTTTCTGGGTTTCTTTCTTTGCCGAGACAGGGATTTTGTCCAG
GAGGCACTCCCTGGCCCATGGATCTCAGCATTCAAAGCAGCACAGGAACTGGGCCCTGAAACGGGG
CCACCGAAGAGATCGGAGAACAACAGGAGGAAGTACTGGAAGGAAGGAAGGAGATCGCTCGTGTCTTA
GATGATGAGGGCAGAACTGAGGCAGCAGAAGCTTGATCGGCAGCGGGCCCTGCTGGAGCAGAAGCAGA
AGAAGAAGCGCCAGGAGCCCTGATGGTGCAGGCCAATGCAGATGGGCGGCCCCGGAGCGCGGGCCCCG
GCAGTCAGAGGAACAAGCCCCCTGGTGGAGTCTACCTCAGCAGCAGTGGCAGCACCAGCTACCAAGTT
CAAGAGGCCGACTCACTCGCCAGTGTGCAGCTGGGAGCCACGCGCCCAACAGCACCAGCTTCAGCCAAGA
GAACCAAGGCGGCAGCTACAGCAGGGGGCCAGGGTGGCGCCGCTAGGAAGGAGAAGAAGGGAAGCACAA
AGGCACCAGCGGGCCAGCAGCACTGGCAGAAGCAAGTCTGAGGCCAAGGCCAGTGCAGATTCTGACT
GTGGGCCAGTCAGACCACGCCAGGACGAGGGAGACGGCAGCTGGTGGGGGCGAACGGCCAGCGGGC
AGGATCTCCGTGCCACGATGCAGAGGAAGGGCATCTCCAGCAGCATGAGCTTTGACGAGGATGAGGAGGA
TGAGGAGGAGAATAGCTCCAGCTCCTCCAGCTAAATAGTAACACCCGCCCCAGCTCTGCTACTAGCAGG
AAGTCCGTCAGGGAGGCAGCCTCAGCCCCTAGCCCAACAGCTCCAGAGCAACAGTGGAGCTTGAGGTCC
AGGATCTTGAGGAGTTTGCAGTGGGCGGCCCCCAGGGTATCACCATCAAATGCCGCATCACTCGGGA
CAAGAAAGGGATGGACCGGGGCATGTACCCACCTACTTTCTGCACCTGGACCGTGAGGATGGGAAGAAG
GTGTTCTCTCGCGGGAAGGAAGAGAAAGAGTAAACTTCCAATTACCTCATCTCTGTGGACCCAA
CAGACTTGTCTCGAGGAGGGGACAGCTATATCGGAAACTGCGGTCCAATTGATGGGCACCAAGTTTAC
TGTTTATGACAATGGAGTCAACCTCAGAAGGCCTATCCTCCACTTTGAAAGTGGAACCTTACGTGAG
GAGCTGGCAGCTGTGTCTACGAGACAAAGCTTTAGGCTTCAAGGGGCTCGGAAGATGAGCGTGATTG
TCCCAGGCATGAACATGGTTTCATGAGAGAGTCTCTATCCGCCCCCGCAACGAGCATGAGACACTGCTAGC
ACGCTGGCAGAATAAGAACACGGAGAGTATCATCGAGCTGCAAAACAAGACACCTGTCTGGAATGATGAC
ACACAGTCTATGTACTCAACTTCCATGGGCGCGTCACACAGGCTCCGTGAAGAACTTCCAGATCATCC
ATGGCAATGACCCGGACTACATCGTGATGACGTTTGGCCGGGTAGCAGAGGATGTGTTCCACATGGATTA
CAACTACCCGCTGTGTGCACTGCAGGCCCTTGCCATTGCCCTGTCCAGCTTCGACAGCAAGCTGGCGTGC
GAGTAG

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_003320 unedited
GGTACTATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGAGGGCCCCCG
CGCCGGCCCCCTCCGGGCCCCGGCCTCCAGAGCCGAGCCACCGCCCCGCCCCGAGAGAC
ATGACTTCCAAGCCGATTCCGACTGGATTCCCTACAGTGTCTTAGATGATGAGGGCAGA
AACCTGAGGCAGCAGAAGCTTGATCGGCAGCGGGCCCTGCTGGAGCAGAAGCAGAAGAAG
AAGCGCCAGGAGCCCTGATGGTGCAGGCCAATGCAGATGGGCGGCCCCGGAGCCGGCGG
GCCCCGCGAGTCAGAGGAACAAGCTCCCCTGGTGGAGTCTACCTCAGCAGCAGTGGCAGC
ACCAGTACCAAGTTCAAGAGGCCGACTCACTCGCCAGTGTGCAGCTGGGAGCCACGCGC
CCAACAGCACCAGCTTCAGCCAAGAGAACAAGGCGGCAGCTACAGCAGGGGGCCAGGGC
GGCGCCGCTAGGAAGGAGAAGGAAGGAAAGCACAAGGCACCAAGCGGGCCAGCAGCACTG
GCAGAAGACAAGTCTGAGGCCCAAGGCCAGTGCAGATTCTGACTGTGGCCAGTCAGAC
CACGCCAGGACGCGAGGGGAGACGGCAGCTGGTGGGGGCGAACGGCCAGCGGGCAGGAT
CTCCGTGCCACGATGCAGAGGAAGGGCATCTCCAGCAGCATGAGCTTTGACGAGGATGAG
GAGGATGANGAGGAGAATAGCTCCAGCTCCTCCAGCTAAATAGTAACACCCGCCCCAGC
TCTGCTACTAGCANGAAGTCCGTGAGGGAGGCAGCCTCAGCCCCCTAGCCACAGCTCCAG
AGCACCAGTGGACCGTTGAGTCCAGGATCTTGTAGAGTTTGCAGTGGGCGGCCCCCA
GGTATCACCATCAATGCCGCANACTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003320 unedited <pre> AGCTTGGACGCGGCCGAATCTAAGATCGGTTTTTTTTTTTTTTTTTTTGTGAAACGATT CAAGTTTAATTTGTTGATATATGTGTGACTTAGACAAACACTAAATCTACAACATACA TAATGTCAACATGGNGAAAAATACCAAGTTTGTCAATTGCACATACCAATAAATAATACAT TTGCTCCAGAAATACCAAGTTTATTCAAAAAGTCAATAAAAGCACAGTTTGCAAATTG TCTAAAACGCCAGATAATCTTGAACAAAAATAAATGTCTGACCACTCCAAAATAGGAAA AGACAATCTTGTGCAAAATAGACATACACAGTCTAGGCATTGTGGAACTGGCTGTGTCC CAGCAAGAGATACTGCACCCTCCTGACCGAGCAGTCAGGCTTCCCTTTCCTAGCCATCCT AAGTTGCGTTCTAGGAACTCTGGATCTCAGCCTCATCTCCAGCTTTCCTGGACCTTGC TAGGGGGAGGGAGGGACAGGAGCACAGAGGAGGAGAGGAGAGGGATGTGATGTCTTTCTT AGGAAAGAAAAAAGGCACAGTGATGAGCTATAAGGTAGTGATGAGAGCTATAAGGTA GTGATGAAAGCAAGGAATAATTTTCATTCACCCCAATCCTACGGCAAGCTTTGACAATG TAACATCTTTATCTTGTGGTTAGGAAAATGGACCTAGAGAGATTATGTGGTTTGCTCAA ATCACATAGCTACTAAGTGCAGTAGTGCTTTCTATAAGACCAACTGCCTTTNCACTTGG TTGGAAAATAAAAACCAACCTGTCGTAATCTATCTGNTCTGCCCTCCCGNCTGTTCA TGAGATGACTNGAAATTNNCAGTGGCCATAACTCAAACAGAGCCTAGCCCTTGGTTATTA NCGNTGGCTACTACAACCTACAGACAGAGCCAGGGTGTAAAGTCCACTCTGGGCCTGA TGCAGTCATT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003320
Insert Size:	6000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003320.1 , NP_003311.1
RefSeq Size:	6432 bp
RefSeq ORF:	6432 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]
 Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (α).