

Product datasheet for **MC200291**

Ctu1 (NM_145582) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctu1 (NM_145582) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctu1
Synonyms:	Atpbd3; BC005752
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005752 sequence for NM_145582
 CAGGCTTCCGCGTGGCAGGCAGAGTACTCAGCTCGTTCCACTCAGTGTAGACCTCTCAGACGACCCAGTT
 CTCTTTCAAGATGCCCGCCCCGACGTGCTTCTCCTGTCAACAGACCCGTGCTGCCCTCCGTCGCCACGT
 TCTGGGACAGGCGCTGTGCGGCTCCTGCTTCTGTGCTGCCTTTGAGGCTGAGGTGTACATACAGTGTG
 CCGGGACCTGCTGCCCGGGCGCTGTAGTGGCCGTGGTGCCTCTGGTGGCAAGGACTCCACAGTGTCT
 GGCACACGTGCTGCGTGAGCTTGCGCCCGCCTGGGCATCACCTGCACCTGGTGGCGGTGGATGAGGGC
 ATCGGCGGCTACCGGGACCGCCGCTGGAGGCAGTGCAGTGCAGCGGCGCGCTGGGAGCTGCCGCTCA
 CCATCGTGGCCTACGAAGATCTCTTCGGGGCTGGACGATGGACGCCGTGGCCCGCAGCACCGCAGGCTC
 CGGCCGAGTCTGCTCCTGCTGCACCTTCTGCGGGGTGCTGCGGAGGCGCGCTGGAGGAGGTGCGCGC
 CTTGTGGGAGCTACACATATTGTGACAGGCCACAACGCTGACGACATGGCTGAGACGGTGTCTATGAACT
 TCCTGCGTGGTATGCTGGGAGGCTGGCGAGGGGTGGGGTCTGGGCTCCACGGGCGAGGGGTGCGCACT
 TCCCAGGTGCCGGCTCTGCAGTTTGCCTCGCAGAAGGAGGTGGTGTATGCGCACTTCCGCCATCTC
 CGCTACTTTCCGAGGAGTGCCTGTATGCCCTGAGGCCCTCCGTGGTATGCCCGGACCTGCTTAAGC
 TCCTGGAGGCGGCAGACCATCAGCCGTGCTGGACCTCGTGCACCTCGGCAGAGCGCTAGCTCTGGCTCC
 GGCAGCAAAGCCCCCTCCTCCAGGCACCTGCTCCCGCTGCGGAGCCCTGGCCAGCCACAAGCTCTGCCAG
 GCCTGTGCCCTCCTGGATGGCCTCAACCAGGCCCTGCCGCGCCTGGCCATCGGCAAGGGCCGCCGTGTG
 TGCAAGTTGAGCCTCCACAGCCTGGGAACCCAAGCCTAGTACCAGTGACCTGTGGCCCCAGCAGGACC
 CTGCACCTGCAAGCAACCGAAAGATAAAGCCAACCCATGCGGCAATGGAGGGGACCGGGCAGGAGCCACC
 TGTGTATCGCAGTGTGACCTGAGCCCCGGGAATGGAGAGGACCGGGCAGGAGCCACCTGTGTATCGCAGA
 GGGACCTGAGCCTTGGGAATGGAGGGGACCGGGCAGGAGCCACCTGTGTATCGCAGTGTGACCTGAGCCC
 CGTGGCGGAGTGCCTGAGCTCTGCACTTACATTGCCCTGTGTCCGGGGAAGTATTGTACCCACTGC
 CCTGCAACTGTGGAGTAATCTATACACTGTGAAGTGATTTCCCTCAGTGCACGGCACCTTGGGACTGAC
 CTGTTTCCGTGTGGAGTGGCTGTACCCTGCAGAGTGCCTTGGCCCTGCAGATTATTTAAAGTGTCCAGT
 GCCCTGCAACCTGAGCCCCGTGTCTACCTGTACCCCATGGAAGGATGGGCCCTGTAGAGCAACATGAAC
 CTTGAAGTATAGGGCGCTTAGGCACAGCTACCAGCTCTAAGAGAGAAGGGACCAACACCCATGCATTCC
 CGCACACCTCTGTGGGCTCAGAGAGCCCTGGCCCTCCTTTTCTGTTTTCCCAAGTCAGGTAACAAAGTC
 ACATGCGTACTAGGAATATTCACAATCGTCACTATACCCGTCTCATCCAGGCACAGCTCTCGCACCTACG
 GGAAGTGGAGAAAGTTTGTCTGAACAGTTGGGACCTCCATGGGCGGGTATGTGAATTGAGGTTGCCT
 GGGAAACTGCCGTGGGAGCAGTTACACAAACGTTTACAGCCCTAGGACAATAGAAAGTCATTAATCAAGA
 CATTGGTCAAGTATGTCCGTGTGAAGTGCAGGTAGACAGGTTATAGCAAAGCTGAAATCCCTTCTGTCAG
 TCTGAGGAACTATCTGATGACTTCTTAGCTTGTGGGTCTTTGGAAGCCAGTGGTCTGCTGAGCTGATAG
 GTTCTGAACCAAATTTGTAGTTTTCACATGTTTGTGAGTTAGTGTCTGGCTGGCCATTTTTTGGTTTT
 GTTTTGTCAACTTACACAGGCTGGGGTCATCTGAGAAAATGCTTCCATAAGATTGGCCTACAGGCAAGC
 TTGTGGGGCATTTTCTGATTGATGATTGATGTGGAAGGGCTCAGCCCACTGTGGGCGGTCCAGTCCCTAG
 GCAGGTGATCCTGGATACTATAAGAAAGCAGGCTGAGTAAGCCAGTCAAGTAGTGTTCCTCATGGCC
 TCTGCCTCAGTTCCTGCTGACTTCCCTCAGTAATGGAGTGTGACCTAAAAATGTAAGTTGAAATAAACTT
 TTTCTCGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_145582

Insert Size: 1263 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.

RefSeq: [BC005752](#), [AAH05752](#)

RefSeq Size: 2476 bp

RefSeq ORF: 1263 bp

Locus ID: 233189

UniProt ID: [Q99J10](#)

Cytogenetics: 7 B3

Gene Summary: Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Directly binds tRNAs and probably acts by catalyzing adenylation of tRNAs, an intermediate required for 2-thiolation. It is unclear whether it acts as a sulfurtransferase that transfers sulfur from thiocarboxylated URM1 onto the uridine of tRNAs at wobble position.[UniProtKB/Swiss-Prot Function]