

Product datasheet for **RN214171**

Ctu1 (NM_001106251) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctu1 (NM_001106251) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ctu1
Synonyms:	Atpbd3; RGD1308740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214171 representing NM_001106251 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCCGGCCCGACGTGCTTCTCCTGTCAAGGCCGCTGCCCTCCGCCGCCACGCTCTGGGCAGG
 CTTTGTGTGGCCCTGCTTCTGTGCTGCCTTTGAGGCTGAGGTGCTGCGTACGGTCTTGTGGGACCT
 GCTGCCGACGGGCGCTGTAGTGGCTGTGGGCGCCTCTGGCGCAAGGACTCCACGGTCTGGCACACGTG
 CTGCGTGAGCTTGACACACGCTTGGGCATCACACTGCACCTGGTGCCGTGGATGAGGGCATAGGCGGCT
 ACCGCGACGCTGCGCTGGAGGCGGTGCGCAGTCAGGCAGCGCGCTGGGAGCTGCCGCTCACCATCGTGGC
 CTATGAAGATCTCTTCGGAGGCTGGACAATGGACGCTGTGGCCCGCAGCACCGCAGGCTCCGGCCGCAGT
 CGCTCCTGCTGCACCTTCTGCGGGTGCTGCGGAGGCGCGCGCTGGAGGAGGGTGCCCGCCTTGTGGGAG
 CTACTCACATTGTGACAGGTCACAATGCTGACGACATGGCTGAGACGGTGCTCATGAACCTCCTGCGTGG
 TGATGCTGGGAGGCTGGCGAGGGGTGGAGTGCTGGGTTCCACAGGCGAAGGATGCGCACTTCCCCGGTGC
 CGGCCTCTGCAGTTTGCCTCGCAGAAGGAGGTGGTGCTGTACGCACATTTCCGCCACCTCCGCTACTTCT
 CCGAGGAGTGTGTATGCCCTGAGGCTTTCCGTGGCCATGCTCGGGACCTGCTTAAGCTCCTGGAGGC
 AGCCAGACCATCGGCCGTGCTGGACCTCGTGCACCTCGGCAGAGCGCCTAGCTCTGGCTCCGGCAGCAAAG
 CCCCCTCCTCCAGGCACCTGCTCCGCTGCGGAGCGCTGGCCAGCAACAAGCTCTGCCAGGCTGTGCAC
 TCCTGGATGGCCTCAACCGAGGCTGCGCGCCTGGCCATCGGCAAGGGCCGCGTGTGTTGCAAGTTGA
 GCGGCCACCTCTAGGGAACCAAGCCGGGTACCAAGTGACCTGTGGCCCTACCAGAACCCTGCACCTGC
 AAGCAATCCAAGATGAATCCAACCATGCGGAAATGGAGGGACCGGGCAGGAGCCACCTGTGTATCGA
 AGAGTGACCTGAGCCCCGTGGCGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001106251
Insert Size:	1149 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:	<u>NM_001106251.1, NP_001099721.1</u>
RefSeq Size:	2245 bp
RefSeq ORF:	1149 bp
Locus ID:	292847
UniProt ID:	<u>B1WBV0</u>
Cytogenetics:	1q22
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]