

Product datasheet for **MC201748**

Tut1 (NM_197993) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tut1 (NM_197993) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tut1
Synonyms:	2700038E08Rik; PAPD2; Rbm21; star-PAP; TUTase6; U6-TUTase
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025499 sequence for NM_197993
 CCACGCGTCCGCGGACGCGTGGGCTTCCCCGCACGCACGTTACAATTTTTAGTTGTGTGTTCCGGTGTGT
 TTCCGGCGAAATAGGCTGTAGGCGTTCCGTACCGGAGAGTGGCTATGGCGGCGGTGGATTCGGACGTTGT
 ATCGCTGCCGCGTGGCCGCTTTCGCTGCTGCCTCTGCGATGTTACTACAGCCAACCGACCCAGCCTCGAT
 GCCCACTTGAAAGGCCGGAAGCACCGGGATTTGGTGCAACTCCGAGCTACCAGGAAGGCACAGGGACTCC
 GAAAGTGTGTTTGTCAAGTGGCTTCCCCAGGGATGTGGGTTCTGCTCAGCTCTCTGAGTACTCCAGACATT
 TGGCCCTGTGGCCAATATTGTCATGGACAAGGACAAGGGGGTGTGGCCATCGTGGAGATGGGAGACATA
 AGTGCTCGGGAGGCTGTCTTATCACAGCCAAGCACAGCCTTGGGGGACATGGACTTCGAGTCCGGCCAA
 GGGAGCAGAAGGAGTTCCAGAGCCAGCTTCCAAGTCTCCAAAGGAGTGGACTCAAGTAGTCACCAGCT
 GGTCCAAGCACTGGCTGAGGCTGCGGATGTGGGGGCCAGATGGTGAAGCTTGTGGAAGTGGAGGAGTTG
 TCTGAGGCTGAGCGGCAGCTTCGGAACCTTGTGTGGCCCTGATGCAGGAGGTCTTACAGAGTTCTTCC
 CTGGCTGTGTGGTCCATCCTTTTGGCTCTACTGTAATAGCTTTGATGTTTATGGCTGTGATCTCGACCT
 CTTCTTGACATGGGTGATATGGAAGAGACCGAGCCAGACCCAAAGGCTCCAAAGTTCCAGAGACTTCA
 TCCTTGACTCAGCCCTTGTCTTCCCTGGATCCTCAGGCGCTGGCCTGCACCCAGCTTCTCCTCTAG
 ACTCACTGTCTCAACTTCTGTTCAAGAGTCTGAGTCCCTGGACTTTGACACCCATCTTCTCTGGCACC
 ACAGACACCCGACTCTGCTTTGGGCTCTGACACTGTACCTCTCCTCAGTCTCTGCTCCAGTTTACCA
 CTGCAGGAGGACAGGAAAGAGGGGAAACAGGGGAAAGAGCTAGAATTAGCAGAAGAAGCCTCAAAGGACG
 AGAAGGAGGAGGCAGCAGCAGTGTAGAGCTGGTGGGATCTATTCTCCGTGGCTGTGTCCCTGGAGTGTA
 CCGAGTCCAAACTGTGCCCTCTGCCCGCGTCTGTGGTCAAGTCTGTGATCGGCCCTCAGGTCTTCAT
 GGAGATGTATCCCTCAGTAACCGGTTGGCCTTATATAATTCACGTTTCTGAATCTCTGCTGAGATGG
 ATGGTCGAGTCCGGCCCTTGTGTATACCTTACGCTGCTGGGCTCAGCATAATGGGCTGTGAGGAGTGG
 CCCCCTTCTCAATAACTACGCTTACGCTTGTAGTGTACTTCTTCCAGACCAGACCCCTCCAGTA
 TTTCTACTGTGGCCAGCTTACCCAGAGCAGGTGAAGGGGAAACAGGTAGAAGTTGATGGCTGGGACT
 GTAGCTTCCCTAAGGATGCCTCAAGATTGGAGCCAGCACCAACGTGGAGCCTCTCAGTTCCCTGTGGC
 CCAAGTCTTCTCCTGCGTATCTTCTGCTGGATCTTCTGGCTCCCTGCTGTCCCTGCGGGAAGGTCGGCCA
 TTGATGGTGGCAGAGGGCCTGCCTTCTGATCTCTGGGAAGGGCTGCGCCTTGGCCCCATGAATCTCCAGG
 ACCCCTTTGACCTGAGTCACAATGTTGCAGCCAATGTGACCGGCCGGGTGGCTAAACGTCTGCAGAGCTG
 TTGTGGGGCAGCAGCCAGTTACTGCCGAAGTCTCCAGTACCAGCAGCGTCTCCTCCGGGGCCGGGACTGG
 GGACTGCTCCCGCTTTTGCAGCCAGCTCCCTAGCTCCCTGCTGTCTGCCAAGCTCATCCCTTACCCT
 CTGCCCTTTCCACAGGTCATTATGGCTTTGGTGGATGTGTTAAGGGAAGCACTAGGATGCCACATAGA
 ACAGGGAACCAAGAGACGACGGTCAGAAGGTGCCAGAATTAAGACTCTCCCTTGGGAGGGGTGAACAAA
 AGACAGAGACTTGGTGGCAAGAAAAGAGCTTCGAGGAAGGGAAGAGGAGCCACAGGGATGTGCAGGGG
 ACCACAGTGAAAATGAGGTAGAAGAAATGGTAATAGAGGTTTCGAGAGACACCTCAGGACTGGGCCTTGT
 GCACTCGGGACCACCAGAGGAGGAGTTGCCCTGATGACTGCAAAGTGTAGACAAGGCAGCTGAGCAT
 AATCCCATGAAACCTGAAGTGGCTGGAGAAGGGTCTCAGGGTGAAGAGGGAAGGAGGCATCACACCCAT
 CATCAGTGAAGTGGCGCTGTGCCTTGTGGCACCAAGTATGGCAGGGGAGGCGCGTGGCCGGAGACGATT
 ACAGCAACAAACCAAGGAAGAAGGTAGAGGAGGTCCCACCACAGGAGCAGAGTGGCTGGCAATGGAAGCT
 CGTGTGACCCAGGAACTAAAAGGACCCAATAGTGAAGCAAGAGAGGCGCCGGGGGAGCCCTCCTCAGCT
 TTGTGGCATCTGCCTCCAGGCTGAGCAGACACTCACTGTGGCCCACTCCAGGACTCCCAAGGCCTGTT
 CCCTGGTCTTCATCATTTTCTACAGGGTTTTATCCCTCAAGCACTTAAAAATCTCCTCAAGTGAGGAACC
 AAACCTCAAAAACAATAAAGCTGCTAGTTTATTTACATACAGACAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_197993

Insert Size: 2610 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:	<ol style="list-style-type: none">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:	BC025499 , AAH25499
RefSeq Size:	2788 bp
RefSeq ORF:	2610 bp
Locus ID:	70044
UniProt ID:	Q8R3F9
Cytogenetics:	19 A
Gene Summary:	<p>Poly(A) polymerase that creates the 3'-poly(A) tail of specific pre-mRNAs. Localizes to nuclear speckles together with PIP5K1A and mediates polyadenylation of a select set of mRNAs, such as HMOX1. In addition to polyadenylation, it is also required for the 3'-end cleavage of pre-mRNAs: binds to the 3' UTR of targeted pre-mRNAs and promotes the recruitment and assembly of the CPSF complex on the 3' UTR of pre-mRNAs. In addition to adenylyltransferase activity, also has uridylyltransferase activity. However, the ATP ratio is higher than UTP in cells, suggesting that it functions primarily as a poly(A) polymerase. Acts as a specific terminal uridylyltransferase for U6 snRNA in vitro: responsible for a controlled elongation reaction that results in the restoration of the four 3'-terminal UMP-residues found in newly transcribed U6 snRNA. Not involved in replication-dependent histone mRNA degradation (By similarity). [UniProtKB/Swiss-Prot Function]</p>