

## Product datasheet for **TP511013**

### Tut1 (NM\_197993) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse terminal uridylyl transferase 1, U6 snRNA-specific (Tut1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR211013 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAAVDSDVSLPRGRFRCCLCDVTTANRPSLDAHLKGRKHRDLVQLRATRKAQGLRSVFSVSGFPRDVGSA          QLSEYFQTFGPVANIVMDKDKGVFAIVEMGDISAREAVLSQPKHSLGGHGLRVRPREQKEFQSPASKSPK          GVDSSSHQLVQALAEAADVGAQMVKLVELRELSAERQLRNLVVALMQEVFTEFFPGCVVHPFGSTVNSF          DVHGCDLDFLDMGDMETEPEPKAPKVPETSSLDLASSLDPQALACTPASPLDSLSPVQESLSD          FDTSSLAPQTPDSALGSDTVTSPQSLPPVSPLOEDRKEGKQKKELELAEASKDEKEEAAVLELVGSI          LRGCVPGVYRVQTPVSARRPVVKFCHRPSTGLHGDVLSNRLALYNSRFLNLCSEMDGRVRPLVYTLRCWA          QHNGLSGGGPLLNYYALLLVIYFLQTRDPPVLPTVAQLTQRAGEGEQVEVDGWDCSFPKASRLEPSTN          VEPLSSLLAQFFSCVSCLDLSSGSLSLREGRPLMVAEGLPSDLWEGLRGLGPMNLQDPFDLSHNVAANVTG          RVAKRLQSCCGAAASYCRSLQYQQRSSRGRDWGLLPLLQPSSPSSLLSAKLIPLSAPFPQVIMALVDVL          REALGCHIEQGTRRRRSEGARIKDSPLGGVNRQRLLGGQEKSFEEGKEEPQGCAGDHSENEVEEMVIEVR          ETPQDWALLHSGPPEEELPLMTANCLDKAAEHNPMKPEVAGEGSQGETGKEASHPSSVSWRCALWHQVWQ          GRRRARRRLQQQTKEEGRGGPTTGAEWLAMEARVTQELKGPNSEQERPPGEPILLSFVASASQAEQTLTVA          PLQDSQGLFPGLHHFLQGFIQALKNLLK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	94.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_932110</u>
<b>Locus ID:</b>	70044
<b>UniProt ID:</b>	<u>Q8R3F9</u>
<b>RefSeq Size:</b>	2764
<b>Cytogenetics:</b>	19 A
<b>RefSeq ORF:</b>	2610
<b>Synonyms:</b>	2700038E08Rik; PAPD2; Rbm21; star-PAP; TUTase6; U6-TUTase
<b>Summary:</b>	<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>