

## Product datasheet for **TP322753**

### **PUS1 (NM\_001002020) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human pseudouridylate synthase 1 (PUS1), transcript variant 3, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC222753 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAGNAEPPPAGAACPQDRRSCSGRAGGDRVWEDGEHPAKKLGSGGDEERREKPPKRKIVLLMAYSGKGYH  
GMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEDMRKMSFQRCARTDKGVSAAQVWVSLKVLIDDILE  
KINSHLPSHIRILGLKRVTTGGFNSKNRCDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLAC  
YKGTNHNFTSQKGPQDPSACRYILEMYCEEFPVREGLEFAVIRVKGQSFMMHQIRKMGVGLVVAIVKGY  
APESVLERSWGTEKVDVPAKPLGLVLERVHFEKYNQRFQNDGLHEPLDWAQEEGKVAAFKEEHYPTII  
GTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSEGDDTD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	44.2 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>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<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.
<b>Storage:</b>	Store at -80°C.
<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>	<a href="#">NP_001002020</a>
<b>Locus ID:</b>	80324



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UniProt ID: [Q9Y606](#), [E5KMT6](#)

RefSeq Size: 1666

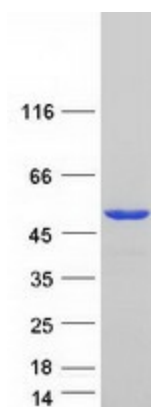
Cytogenetics: 12q24.33

RefSeq ORF: 1197

Synonyms: MLASA1

**Summary:** This gene encodes a pseudouridine synthase that converts uridine to pseudouridine once it has been incorporated into an RNA molecule. The encoded enzyme may play an essential role in tRNA function and in stabilizing the secondary and tertiary structure of many RNAs. A mutation in this gene has been linked to mitochondrial myopathy and sideroblastic anemia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Sep 2009]

### Product images:



Coomassie blue staining of purified PUS1 protein (Cat# TP322753). The protein was produced from HEK293T cells transfected with PUS1 cDNA clone (Cat# [RC222753]) using MegaTran 2.0 (Cat# [TT210002]).