# Recombinant Human PUS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PUS1-3259H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | PUS1 MS Standard C13 and N15-labeled recombinant protein (NP_001002020) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | 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. |
| **Molecular Mass** | 44.4 kDa |
| **AA Sequence** | MAGNAEPPPAGAACPQDRRSCSGRAGGDRVWEDGEHPAKKLKSGGDEERREKP PKRKIVLLMAYSGKGYHGMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEDMRKM SFQRCARTDKGVSAAGQVVSLKVWLIDDILEKINSHLPSHIRILGLKRVTGGFNSKNR CDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLACYKGTHNFHNFTSQ KGPQDPSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMVGLVVAIVKGY APESVLERSWGTEKVDVPKAPGLGLVLERVHFEKYNQRFGNDGLHEPLDWAQEEG KVAAFKEEHIYPTIIGTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSE |

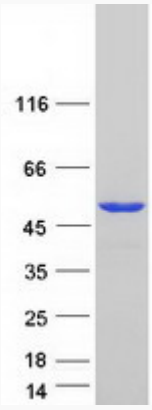
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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|---|---|
| | GDGDTDTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **Storage** | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| **Concentration** | 50 μg/mL as determined by BCA |
| **Storage Buffer** | 100 mM glycine, 25 mM Tris-HCl, pH 7.3. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | PUS1 pseudouridylate synthase 1 [ Homo sapiens (human) ] |
| **Official Symbol** | PUS1 |
| **Synonyms** | PUS1; pseudouridylate synthase 1; tRNA pseudouridine synthase A, mitochondrial; tRNA uridine isomerase I; tRNA-uridine isomerase I; tRNA pseudouridylate synthase I; tRNA pseudouridine(38-40) synthase; mitochondrial tRNA pseudouridine synthase A; MLASA1; MGC11268; |
| **Gene ID** | 80324 |
| **mRNA Refseq** | NM_001002020 |
| **Protein Refseq** | NP_001002020 |
| **MIM** | 608109 |

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| **UniProt ID** | Q9Y606 |
| **SDS-PAGE** |  |



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