

## Product datasheet for PH302637

### PUS1 (NM\_001002019) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PUS1 MS Standard C13 and N15-labeled recombinant protein (NP_001002019)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202637
Predicted MW:	44.4 kDa
Protein Sequence:	>RC202637 protein sequence Red=Cloning site Green=Tags(s)
	MAGNAEPPAGAACPQDRRSCSAGRAGGDRVWEDGEHPAKKLLKSGGDEERREKPPKRKIVLLMAYSGKGYH GMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEMRKMSFQRCARTDKGVSAAGQVVSLLKVLIDDILE KINSHLPSHIRILGLKRVTTGGFNSKNRCDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLAC YKGTNHFHNFTSQKGPQDPSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMGVGLVVAIVKGY APESVLEERSWGTEKVDVPKAPGLGLVLERVHFKEYNQRFNDGLHEPLDWAQEEGKVAAFKEEHIYPTII GTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSEGDGDTD
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001002019</u>
RefSeq Size:	1637
RefSeq ORF:	1197
Synonyms:	MLASA1
Locus ID:	80324



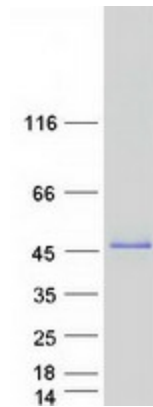
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UniProt ID: [Q9Y606](#), [E5KMT6](#)

Cytogenetics: 12q24.33

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# [TP302637]). The protein was produced from HEK293T cells transfected with PUS1 cDNA clone (Cat# [RC202637]) using MegaTran 2.0 (Cat# [TT210002]).