Recombinant Full Length Human pseudouridylate synthase 1 Protein, Flag tagged

Cat. No. PUS1-34HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human pseudouridylate synthase 1 (PUS1), transcript variant 2 with C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-427 aa
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.
Tag	C-Flag
Molecular Mass	44.2 kDa
AA Sequence	MAGNAEPPPAGAACPQDRRSCSGRAGGDRVWEDGEHPAKKLKSGGDEERREKP PKRKIVLLMAYSGKGYHGMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEDMRKM SFQRCARTDKGVSAAGQVVSLKVWLIDDILEKINSHLPSHIRILGLKRVTGGFNSKNR CDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLACYKGTHNFHNFTSQ

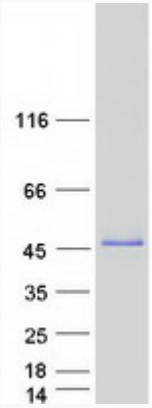
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	KGPQDPSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMVGLVVAIVKGY APESVLERSWGTEKVDVPKAPGLGLVLERVHFEKYNQRFGNDGLHEPLDWAQEEG KVAAFKEEHIYPTIIGTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSE GDGDTDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Concentration	>0.05 μg/μL as determined by microplate BCA method

GENE INFORMATION

Gene Name	PUS1 pseudouridylate synthase 1 [Homo sapiens]
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

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mRNA Refseq	NM_001002019
Protein Refseq	NP_001002019
MIM	608109
UniProt ID	Q9Y606
SDS-PAGE	

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