

# Recombinant Human PUS10 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PUS10-5584H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	PUS10 MS Standard C13 and N15-labeled recombinant protein (NP_653310) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Pseudouridination, the isomerization of uridine to pseudouridine, is the most common posttranscriptional nucleotide modification found in RNA and is essential for biologic functions such as spliceosome biogenesis. Pseudouridylate synthases, such as PUS10, catalyze pseudouridination of structural RNAs, including transfer, ribosomal, and splicing RNAs. These enzymes also act as RNA chaperones, facilitating the correct folding and assembly of tRNAs.
<b>Molecular Mass</b>	60.2 kDa
<b>AA Sequence</b>	MFPLTEENKHVAQLLLNTGTCPRCIFRFCGVDFHAPYKLPYKELLNELQKFLETEKD ELILEVMNPPPKKIRLQLEDSIDNLSQNGEGRISVSHVVGSTASKNSNLNVCNVCGLI LQEFCEKDFIKKVCQKVEASGFETSLVFSVSFPPQLSVREHAAWLLVKQEMGKQS LSLGRDDIVQLKEAYKWITHPLFSEELGVPIDGKSLFEVSVVFAHPETVEDCHFLAAIC PDCFKPAKNKQSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVCAVLEIECAHGA VFGVAGRYNKYSRNLQPWIIDGERKLESSVEELISDHLLAVFKAESFNFSSSGREDV DVRTLGNRPFIAELVNPVRVHFTSQEIKELQQKINSSNKIQVRDLQLVTREIGHM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KEGEEEEKTKTYSALIWTNKAIQKKDIEFLNDIKDLKIDQKTPLRVLHRRPLAVRARVIHF  
 METQYVDEHHFRLHLKTQAGTYIKEFVHGDFGRTPKNIGSLMNVTADILELDVESVD  
 VDWPPALDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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

**Gene Name** PUS10 pseudouridylate synthase 10 [ Homo sapiens (human) ]

**Official Symbol** PUS10

**Synonyms** PUS10; pseudouridylate synthase 10; CCDC139, coiled coil domain containing 139; putative tRNA pseudouridine synthase Pus10; FLJ32312; psi55 synthase; tRNA-uridine isomerase; pseudouridine synthase 10; tRNA pseudouridylate synthase; tRNA pseudouridine 55 synthase; coiled-coil domain containing 139; coiled-coil domain-containing protein 139; DOBI; CCDC139; MGC126729; MGC126755;

**Gene ID** 150962

**mRNA Refseq** NM\_144709

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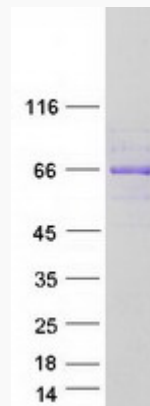
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Protein Refseq** NP\_653310

**MIM** 612787

**UniProt ID** Q3MIT2

**SDS-PAGE**



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