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

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

SPECIFICATION

Product Overview	PUS10 MS Standard C13 and N15-labeled recombinant protein (NP_653310) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	60.2 kDa
AA Sequence	MFPLTEENKHVAQLLLNTGTCPRCIFRFCGVDFHAPYKLPYKELLNELQKFLETEKD ELILEVMNPPPKKIRLQELEDSIDNLSQNGEGRISVSHVGSTASKNSNLNVCNVCLGI LQEFCEKDFIKKVCQKVEASGFEFTSLVFSVSFPPQLSVREHAAWLLVKQEMGKQS LSLGRDDIVQLKEAYKWITHPLFSEELGVPIDGKSLFEVSVVFAHPETVEDCHFLAAIC PDCFKPAKNKQSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVCAVLEIECAHGA VFVAGRYNKYSRNLPQTPWIIDGERKLESSVEELISDHLLAVFKAESFNFSSSGREDV DVRTLGNGRPFAIELVNPHRVHFTSQEIKELQQKINNSSNKIQVRDLQLVTREAIGHM

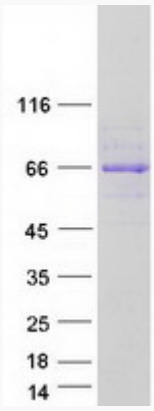
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KEGEEEKTKTYSALIWTNKAIQKKDIEFLNDIKDLKIDQKTPLRVLHRRPLAVRARVIHF METQYVDEHHFRLHLKTQAGTYIKEFVHGDFGRTKPNIGSLMNVTADILELDVESVD 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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Protein Refseq	NP_653310
MIM	612787
UniProt ID	Q3MIT2
SDS-PAGE	

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