

Datasheet for ABIN7551113
PUS7 Protein (AA 1-661) (His tag)



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Overview

Quantity:	1 mg
Target:	PUS7
Protein Characteristics:	AA 1-661
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PUS7 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PUS7 Protein expressed in mammalien cells.
Sequence:	MEMTEMTGVS LKRGALVVED NDSGVPVEET KKQKLSECSL TKGQDGLQND FLSISEDVPR PPDVTSTGKG GKNSEAQLED EEEEEEDGLS EEECEEESES FADMMKHGLT EADVGITKFV SSHQGFSGIL KERYSDFFVH EIGKDGRISH LNDLSIPVDE EDPSIEDFTV LTAAEEKQRLE ELQLFKNKET SVAIEVIEDT KEKRTIIHQAIKSLFPGLET KTEDREGKKY IVAYHAAGKK ALANPRKHSW PKSRGSYCHF VLYKENKDTM DAINVLSKYL RVKPNIFSYM GTKDKRAITV QEIAVLKITA QRLAHLNKCL MNFKLGNFSY QKNPLKLGEL QGNHFTVVLR NITGTDDQVQ QAMNSLKEIG FINYYGMQRF GTTAVPTYQV GRAILQNSWT EVMDLILKPR SGAEKGYLVK CREEWAKTKD PTAALRKLPV KRCVEGQLLR GLSKYGMKNI VSAFGIIPRN NRLMYIHSYQ SYVWNNMVSK RIEDYGLKPV PGDLVLKAT ATYIEEDDVN NYSIHDVVMP LPGFDVIYPK HKIQEAYREM LTADNLDIDN MRHKIRDYSL SGAYRKIIIR PQNVSWEVVA YDDPKIPLFN TDVDNLEGKT PPFASEGKY RALKMDFSLP PSTYATMAIR EVLKMDTSIK NQTQLNTTWL R

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PUS7

Alternative Name:

PUS7 ([PUS7 Products](#))

Background:

Pseudouridylate synthase 7 homolog (EC 5.4.99.-),FUNCTION: Pseudouridylate synthase that catalyzes pseudouridylation of RNAs (PubMed:28073919, PubMed:29628141, PubMed:30778726, PubMed:31477916, PubMed:35051350, PubMed:34718722). Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex (PubMed:29628141). Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3' (PubMed:28073919, PubMed:31477916, PubMed:35051350). Acts as a regulator of pre-mRNA splicing by mediating pseudouridylation of pre-mRNAs at locations associated with alternatively spliced regions (PubMed:35051350). Pseudouridylation of pre-mRNAs near splice

Target Details

sites directly regulates mRNA splicing and mRNA 3'-end processing (PubMed:35051350). In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types (PubMed:29628141). {ECO:0000269|PubMed:28073919, ECO:0000269|PubMed:29628141, ECO:0000269|PubMed:30778726, ECO:0000269|PubMed:31477916, ECO:0000269|PubMed:34718722, ECO:0000269|PubMed:35051350}.

Molecular Weight: 75.0 kDa

UniProt: [Q96PZ0](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months