

Datasheet for ABIN7549015
LARP7 Protein (AA 1-582) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	LARP7
Protein Characteristics:	AA 1-582
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LARP7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat LARP7 Protein expressed in mammalian cells.
Sequence:	METESGNQEK VMEEESTEKK KEVEKKKRSR VKQVLADIAK QVDFWFGDAN LHKDRFLREQ IEKSRDGYVD ISLLVSFNKM KKLTTDGKLI ARALRSSAVV ELDLEGTRIR RKKPLGERPK DEDERTVYVE LLPKNVNSHW IERVFGKCGN VVYISIPHYK STGDPKGFAP VEFETKEQAA KAIEFLNNPP EEAPRKP GIP PKTVKNKPIP ALRVVEEKKK KKKKKGRMCK EDNIQAKEEN MDTSNTSISK MKRSRPTSEG SDIESTEPQK QCSKKKKKRD RVEASSLPEV RTGKRKRSSS EDAESLAPRS KVKKIIQKDI IKEASEASKE NRDIEISTEE EKDTGDLKDS SLLKTKRKHK KKHKERHKMG EEVIPLRVLS KSEWMDLKE YLALQKASMA SLKKTISQIK SESEMETDSG VPQNTGMKNE KTANREECRT QEKVNATGPQ FVSGVIVKII STEPLPGRKQ VRDTLAAISE VLYVDLLEGD TECHARFKTP EDAQVINAY TEINKKHCWK LEILSGDHEQ RYWQKILVDR QAKLNQPREK KRGTEKLITK AEKIRLAKTQ QASKHIRFSE YD 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:

LARP7

Alternative Name:

LARP7 ([LARP7 Products](#))

Background:

La-related protein 7 (La ribonucleoprotein domain family member 7) (hLARP7) (P-TEFb-interaction protein for 7SK stability) (PIP7S),FUNCTION: RNA-binding protein that specifically binds distinct small nuclear RNA (snRNAs) and regulates their processing and function (PubMed:18249148, PubMed:32017898). Specifically binds the 7SK snRNA (7SK RNA) and acts as a core component of the 7SK ribonucleoprotein (RNP) complex, thereby acting as a negative regulator of transcription elongation by RNA polymerase II (PubMed:18249148, PubMed:18483487). The 7SK RNP complex sequesters the positive transcription elongation factor b (P-TEFb) in a large inactive 7SK RNP complex preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation (PubMed:18249148, PubMed:18483487). The 7SK RNP complex also promotes snRNA gene transcription by RNA polymerase II via interaction with the little elongation complex (LEC) (PubMed:28254838).

Target Details

LARP7 specifically binds to the highly conserved 3'-terminal U-rich stretch of 7SK RNA, on stimulation, remains associated with 7SK RNA, whereas P-TEFb is released from the complex (PubMed:18483487, PubMed:18281698). LARP7 also acts as a regulator of mRNA splicing fidelity by promoting U6 snRNA processing (PubMed:32017898). Specifically binds U6 snRNAs and associates with a subset of box C/D RNP complexes: promotes U6 snRNA 2'-O-methylation by facilitating U6 snRNA loading into box C/D RNP complexes (PubMed:32017898). U6 snRNA 2'-O-methylation is required for mRNA splicing fidelity (PubMed:32017898). Binds U6 snRNAs with a 5'-CAGGG-3' sequence motif (PubMed:32017898). U6 snRNA processing is required for spermatogenesis (By similarity). {ECO:0000250|UniProtKB:Q05CL8, ECO:0000269|PubMed:18249148, ECO:0000269|PubMed:18281698, ECO:0000269|PubMed:18483487, ECO:0000269|PubMed:28254838, ECO:0000269|PubMed:32017898}.

Molecular Weight: 66.9 kDa

UniProt: [Q4G0J3](#)

Pathways: [Chromatin Binding](#), [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

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