

Datasheet for ABIN7555952  
**USP38 Protein (AA 1-1042) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USP38
Protein Characteristics:	AA 1-1042
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP38 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat USP38 Protein expressed in mammalien cells.
Sequence:	MDKILEGLVS SSHPLPLKRV IVRKVVESAE HWLDEAQCEA MFDLTTRLIL EGQDPFQRQV GHQVLEAYAR YHRPEFESFF NKTFVLGLLH QGYHSLDRKD VAILDYIHNG LKLIMSCPSV LDFLSLLQVE VLRMVCERPE PQLCARLSDL LTDFVQCIPK GKLSITFCQQ LVRTIGHFQC VSTQERELRE YVSQVTKVSN LLQNIWKAEP ATLLPSLQEV FASISSTDAS FEPSVALASL VQHIPLQMIT VLIRSLTDDP NVKDASMTQA LCRMIDWLSW PLAQHVDTWV IALLKGLAAV QKFTILIDVT LLKIELVFNR LWFPLVRPGA LAVLSHMLLS FQHSPEAFHL IVPHVNLVH SFKNDGLPSS TAFLVQLTEL IHCM MYHYSG FPDLYEPILE AIKDFPKPSE EKIKLILNQS AWTSQSNSLA SCLSRLSGKS ETGKTGLINL GNTCYMNSVI QALFMATDFR RQVLSLNLNG CNSLMKKLQH LFAFLAHTQR EAYAPRIFFE ASRPPWFTPR SQQDCSEYLR FLLDRLHEEE KILKVQASHK PSEILECSET SLQEVASKAA VLTETPRTSD GEKTLIEKMF GGKLRTHIRC LNCRSTSQKV EAFTDLSLAF CPSSSLENMS VQDPASSPSI QDGGMLMQASV PGPSEEPVVY

## Product Details

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NPTTAAFICD SLVNEKTIGS PPNEFYCSEN TSVPNESNKI LVNKDVPQKP GGETTPSVTD  
LLNYFLAPEI LTGDNQYYCE NCASLQNAEK TMQITEEPEY LILTLRFSY DQKYHVRRI  
LDNVSLPLVL ELPVKRITSF SSLSESWSVD VDFTDLSENL AKKPKPSGTD EASCTKLVPI  
LLSSVVHSG ISSESGHYYS YARNITSTDS SYQMYHQSEA LALASSQSHL LGRDPSAVF  
EQDLENKEMS KEWFLFNSR VTFTSFQSVQ KITSRFPKDT AYVLLYKKQH STNGLSGNNP  
TSGLWINGDP PLQKELMDAI TKDNKLYLQE QELNARARAL QAASASCSFR PNGFDDNDPP  
GSCGPTGGGG GGGFNTVGRL VF **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

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### Target:

USP38

### Alternative Name:

USP38 ([USP38 Products](#))

### Background:

Ubiquitin carboxyl-terminal hydrolase 38 (EC 3.4.19.12) (Deubiquitinating enzyme 38) (HP43.8KD) (Ubiquitin thioesterase 38) (Ubiquitin-specific-processing protease 38),FUNCTION: Deubiquitinating enzyme that plays a role in various cellular processes, including DNA repair, cell cycle regulation, and immune response (PubMed:22689415, PubMed:30497519,

## Target Details

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PubMed:31874856, PubMed:35238669). Plays a role in the inhibition of type I interferon signaling by mediating the 'Lys-33' to 'Lys-48' ubiquitination transition of TBK1 leading to its degradation (PubMed:27692986). Cleaves the ubiquitin chain from the histone demethylase LSD1/KDM1A and prevents it from degradation by the 26S proteasome, thus maintaining LSD1 protein level in cells (PubMed:30497519). Plays a role in the DNA damage response by regulating the deacetylase activity of HDAC1 (PubMed:31874856). Mechanistically, removes the 'Lys-63'-linked ubiquitin chain promoting the deacetylase activity of HDAC1 in response to DNA damage (PubMed:31874856). Acts also as a specific deubiquitinase of histone deacetylase 3/HDAC3 and cleaves its 'Lys-63'-linked ubiquitin chains to lower its histone deacetylase activity (PubMed:32404892). Regulates MYC levels and cell proliferation via antagonizing ubiquitin E3 ligase FBXW7 thereby preventing MYC 'Lys-48'-linked ubiquitination and degradation (PubMed:34102342). Participates in antiviral response by removing both 'Lys-48'-linked and 'Lys-63'-linked polyubiquitination of Zika virus envelope protein E (PubMed:34696459). Constitutively associated with IL-33R/IL1RL1, deconjugates its 'Lys-27'-linked polyubiquitination resulting in its autophagic degradation (PubMed:35238669). {ECO:0000269|PubMed:22689415, ECO:0000269|PubMed:27692986, ECO:0000269|PubMed:30497519, ECO:0000269|PubMed:31874856, ECO:0000269|PubMed:32404892, ECO:0000269|PubMed:34102342, ECO:0000269|PubMed:34696459, ECO:0000269|PubMed:35238669}.

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Molecular Weight: 116.5 kDa

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UniProt: [Q8NB14](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months