

Datasheet for ABIN7555956  
**USP8 Protein (AA 1-1118) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USP8
Protein Characteristics:	AA 1-1118
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat USP8 Protein expressed in mammalian cells.
Sequence:	<p>MPAVASVPKE LYLSSSLKDL NKKTEVKPEK ISTKSYVHSA LKIFKTAEEC RLDRDEERAY VLYMKYVTVY NLIKKRPDFK QQDYFHSIL GPGNIKKAVE EAERLSESLK LRYEEAEVRK KLEEKDRQEE AQLRQKRQE TGREDGGTLA KGSLENVLDS KDKTQKSNGE KNEKCETKEK GAIKAKELYT MMTDKNISLI IMDARRMQDY QDSCILHSLV VPEEAISPGV TASWIEAHLF DDSKDTWKKR GNVEYVLLD WFSSAKDLQI GTTLRSLKDA LFKWESKTVL RNEPLVLEGG YENWLLCYPQ YTTNAKVTPP PRRQNEEVS I SLDFTYPSLE ESIPSKPAAQ TPPASIEVDE NIELISGQNE RMGPLNISTP VEPVAASKSD VSPIIQPVPS IKNVPQIDRT KKPAVKLPEE HRIKSESTNH EQQSPQSGKV IPDRSTKPVV FSPTLMLTDE EKARIHAETA LLMEKNKQEK ELRERQEEQ KEKLRKEEQE QKAKKKQEA ENEITEKQK AKEEMEKES EQAKKEDKET SAKRGKEITG VKRQSKSEHE TSDAKKSVED RGKRCPTPEI QKKSTGDVPH TSVTGDSGSG KPFKIKGQPE SGILRTGTFR EDTDDTERNK AQREPLTRAR SEEMGRIVPG LPSGWAKFLD</p>

## Product Details

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PITGTFRYYH SPTNTVHMYP PEMAPSSAPP STPPTHKAKP QIPAERDREP SKLKRSYSSP  
DITQAIQEEE KRKPTVTPTV NRENKPTCYP KAEISRLSAS QIRNLNPVFG GSGPALTGLR  
NLGNTCYMNS ILQCLCNAPH LADYFNRNCY QDDINRSNLL GHKGEVAEEF GIIMKALWGTG  
QYRYISPKDF KITIGKINDQ FAGYSQQDSQ ELLFLMDGL HEDLNKADNR KRYKEENNDH  
LDDFKAAEHA WQKHKQLNES IIVALFQGQF KSTVQCLTCH KKSRTFEAFM YLSLPLASTS  
KCTLQDCLRL FSKEEKLTDN NRFYCCHCRA RRDSLKKEI WKLPPVLLVH LKRFSYDGRW  
KQKLQTSVDF PLENLDLSQY VIGPKNNLKK YNLFSVSNHY GGLDGGHYTA YCKNAARQRW  
FKFDDHEVSD ISVSSVKSSA AYILFYTSLG PRVTDVAT **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.**

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### 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.

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### Purity:

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

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### Grade:

custom-made

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## Target Details

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### Target:

USP8

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### Alternative Name:

USP8 ([USP8 Products](#))

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### Background:

Ubiquitin carboxyl-terminal hydrolase 8 (EC 3.4.19.12) (Deubiquitinating enzyme 8) (Ubiquitin isopeptidase Y) (hUBPy) (Ubiquitin thioesterase 8) (Ubiquitin-specific-processing protease

## Target Details

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8),FUNCTION: Hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. Converts both 'Lys-48' and 'Lys-63'-linked ubiquitin chains. Catalytic activity is enhanced in the M phase. Involved in cell proliferation. Required to enter into S phase in response to serum stimulation. May regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. Probably regulates the stability of STAM2 and RASGRF1. Regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. Deubiquitinates EPS15 and controls tyrosine kinase stability. Removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. Involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules. Deubiquitinates BIRC6/bruce and KIF23/MKLP1. Deubiquitinates BACE1 which inhibits BACE1 lysosomal degradation and modulates BACE-mediated APP cleavage and amyloid-beta formation (PubMed:27302062). {ECO:0000269|PubMed:16520378, ECO:0000269|PubMed:17711858, ECO:0000269|PubMed:18329369, ECO:0000269|PubMed:27302062, ECO:0000269|PubMed:9628861}.

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Molecular Weight: 127.5 kDa

UniProt: [P40818](#)

## 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

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.

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## Handling

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Expiry Date: 12 months