

Datasheet for ABIN7555939  
**USP21 Protein (AA 1-565) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USP21
Protein Characteristics:	AA 1-565
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP21 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant USP21 Protein expressed in mammalian cells.
Sequence:	<p>MPQASEHRLG RTREPPVNIQ PRVGSKL PFA PRASKERRN PASGPNPMLR PLPPRPGLPD ERLKKLELGR GRTSGPRPRG PLRADHGVPL PGSPPTVAL PLPSRTNLAR SKSVSSGDLR PMGIALGGHR GTGELGAALS RLALRPEPPT LRRSTSLRRL GGFPGPPTLF SIRTEPPASH GSFHMISARS SEPFYSDDKM AHHTLLLGSG HVGLRNLGNT CFLNAV LQCL SSTRPLRDFC LRRDFRQEV PGGRAQELTE AFADVIGALW HPDSCEAVNP TRFRAVFQKY VPSFSGYSQQ DAQEFLKLLM ERLHLEINRR GRRAPPILAN GPVSPPRRG GALLEEPELS DDDRANLMWK RYLEREDSKI VDLFVGQLKS CLKCQACGYR STTFEVFCDL SLPIPKKGFA GGVSLRDCF NLFTKEEEL SENAPVCDRC RQKTRSTKKL TVQRFPRILV LHLNRFASR GSIKKSSVGV DFPLQRSLG DFASDKAGSP VYQLYALCNH SGSVHYGHY T ALCRCQTGWH VYND SRVSPV SENQVASSEG YVLFYQLMQE PPRCL <b>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.</b></p>

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** USP21

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**Alternative Name:** USP21 ([USP21 Products](#))

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**Background:** Ubiquitin carboxyl-terminal hydrolase 21 (EC 3.4.19.12) (Deubiquitinating enzyme 21) (Ubiquitin thioesterase 21) (Ubiquitin-specific-processing protease 21),FUNCTION: Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator (By similarity). Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation (By similarity). Regulates gene expression via histone H2A deubiquitination (By similarity). Deubiquitinates BAZ2A/TIP5 leading to its stabilization (PubMed:26100909). Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates (PubMed:10799498). Also acts as a negative regulator of the ribosome quality control (RQC) by mediating deubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS20/uS10, thereby antagonizing ZNF598-mediated 40S ubiquitination (PubMed:32011234).

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## Target Details

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{ECO:0000250|UniProtKB:Q9QZL6, ECO:0000269|PubMed:10799498,  
ECO:0000269|PubMed:26100909, ECO:0000269|PubMed:32011234}.

Molecular Weight: 62.7 kDa

UniProt: [Q9UK80](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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.

Expiry Date: 12 months