

Datasheet for ABIN7555962  
**USP44 Protein (AA 1-712) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USP44
Protein Characteristics:	AA 1-712
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP44 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat USP44 Protein expressed in mammalian cells.
Sequence:	MLAMDTCKHV GQLQLAQDHS SLNPQKWHCV DCNTTESIWA CLSCSHVACG RYIEEHALKH FQESSHPVAL EVNEMYVFCY LCDDYVLNDN TTGDLKLLRR TLSAIKSQNY HCTTRSGRFL RSMGTGDDSY FLHDGAQSLQ QSEDQLYTAL WHRRRILMGK IFRTWFEQSP IGRKKQEEPF QEKIVVKREV KKRRQELEYQ VKAELESMPP RKSRLRQGLA QSTIIEIVSV QVPAQTPASP AKDKVLSTSE NEISQKVSDES SVKRRPIVTP GVTGLRNLGN TCYMNSVLQV LSHLLIFRQC FLKLDLNQWL AMTASEKTRS CKHPPVTDTV VYQMNECQEK DTGFVCSRQS SLSSGLSGGA SKGRKMELIQ PKEPTSQYIS LCHELHTLFQ VMWSGKWALV SPFAMLHSVW RLIPAFRGYA QQDAQEFLCE LLDKIQRELE TTGTSLPALI PTSQRKLIKQ VLNVNINIFH GQLLSQVTCL ACDNKSNTIE PFWDLSLEFP ERYQCSGKDI ASQPCLVTEM LAKFTETEAL EGKIYVCDQC NSKRRRFSSK PVVLTEAQKQ LMICHLQPVL RLHLKRFRWS GRNNREKIGV HVGFEELNM EPLYCCRETLK SLRPECFIYD LSAVVMHHGK GFGSGHYTAY CYNSEGGFWV HCNDKLSMC

TMDEVCKAQA YILFYTQRVT ENGHSKLLPP ELLLGSQHPN EDADTSSNEI LS **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:

USP44

### Alternative Name:

USP44 ([USP44 Products](#))

### Background:

Ubiquitin carboxyl-terminal hydrolase 44 (EC 3.4.19.12) (Deubiquitinating enzyme 44) (Ubiquitin thioesterase 44) (Ubiquitin-specific-processing protease 44),FUNCTION: Deubiquitinase that plays a key regulatory role in the spindle assembly checkpoint or mitotic checkpoint by preventing premature anaphase onset. Acts by specifically mediating deubiquitination of CDC20, a negative regulator of the anaphase promoting complex/cyclosome (APC/C) (PubMed:17443180). Deubiquitination of CDC20 leads to stabilize the MAD2L1-CDC20-APC/C ternary complex (also named mitotic checkpoint complex), thereby preventing premature activation of the APC/C (PubMed:17443180). Promotes association of MAD2L1 with CDC20 and reinforces the spindle assembly checkpoint (PubMed:17443180). Promotes also the

## Target Details

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deubiquitination of histone H2A and H2B (PubMed:23615962, PubMed:27880911). Recruited to RNF8/RNF168-ubiquitinated chromatin surrounding double stranded breaks (DSBs), promotes hydrolysis of such ubiquitin conjugates, thus negatively regulating protein recruitment to damaged chromatin (PubMed:23615962). Participates in nucleotide excision repair (NER) pathway by deubiquitinating DDB2 to prevent its premature degradation so it can remain on damaged chromatin (By similarity). Promotes FOXP3 stabilization through 'Lys-48'-linked deubiquitination leading to increased stability and increased regulatory T-cell lineage stability (PubMed:32644293). Plays also a positive role in innate immune response to DNA viruses by deubiquitinating STING1, selectively removing its 'Lys-48'-linked polyubiquitin chains and stabilizing it (PubMed:31968013). {ECO:0000250|UniProtKB:Q8C2S0, ECO:0000269|PubMed:17443180, ECO:0000269|PubMed:22681888, ECO:0000269|PubMed:23615962, ECO:0000269|PubMed:27880911, ECO:0000269|PubMed:31968013, ECO:0000269|PubMed:32644293}.

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Molecular Weight: 81.2 kDa

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UniProt: [Q9H0E7](#)

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Pathways: [M Phase](#)

## 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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Storage Comment: Store at -80°C.

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Expiry Date: 12 months