

Datasheet for ABIN7555896  
**USP37 Protein (AA 1-979) (His tag)**



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## Overview

Quantity:	1 mg
Target:	USP37
Protein Characteristics:	AA 1-979
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP37 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat USP37 Protein expressed in mammalian cells.
Sequence:	MSPLKIHGPI RIRSMQTGIT KWKEGSFEIV EKENKVSLVV HYNTGGIPRI FQLSHNIKNV VLRPSGAKQS RLMLTLQDNS FLSIDKVPSK DAEEMRLFLD AVHQNRLPAA MKPSQGGSGSF GAILGSRSTS KETSRQLSYS DNQASAKRGS LETKDDIPFR KVLGNPGRGS IKTVAGSGIA RTIPSLTSTS TPLRSGLEN RTEKRKRMIS TGSELNEDYP KENDSSSNK AMTDPSRKYL TSSREKQLSL KQSEENRTSG LLPLQSSSFY GSRAGSKEHS SGGTNLDRTN VSSQTPSAKR SLGFLPQVPV LSVKKLRCNQ DYTGWNKPRV PLSSHQQQL QGFSNLGNTC YMNAILQSLF SLQSFANDLL KQGIPWKKIP LNALIRRFH LLVKKDICNS ETKKDLLKKV KNAISATAER FSGYMQNDAH EFLSQCLDQL KEDMEKLNKT WKTEPVSSEE NSPDISATRA YTCPVITNLE FEVQHSIICK ACGEIIPKRE QFNDLSIDLPRRKKPLPPRS IQDSLDFFR AEELEYSCEK CGGKCALVRH KFNRLPRVLI LHLKRYSFNV ALSLNKIGQ QVIIPRYLTL SSHCTENTKP PFTLGWSAHM AISRPLKASQ MVNSCITSPS TPSKKFTFKS KSSLALCLDS DSEDELKRSV

## Product Details

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ALSQRLCEML GNEQQQEDLE KDSKLCPIEP DKSELENSGF DRMSEEEELLA AVLEISKRDA  
SPSLSHEDDD KPTSSPDTGF AEDDIQEMPE NPDTMETEKP KTITELDPAS FTEITKDCDE  
NKENKTPEGS QGEVDWLQYQY DMEREREEQE LQQALAQSLQ EQEAWEQKED DDLKRATELS  
LQEFNNSFVD ALGSDDESGN EDVFDMEYTE AEAELKRNA ETGNLPHSYR LISVSHIGS  
TSSSGHYISD VYDIKKQAWF TYNDLEVSKI QEAAVQSDRD RSGYIFFYMH KEIFDELLET  
EKNSQSLSTE VGKTTTRQAL **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:

USP37

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### Alternative Name:

USP37 ([USP37 Products](#))

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### Background:

Ubiquitin carboxyl-terminal hydrolase 37 (EC 3.4.19.12) (Deubiquitinating enzyme 37) (Ubiquitin thioesterase 37) (Ubiquitin-specific-processing protease 37),FUNCTION: Deubiquitinase that plays a role in different processes including cell cycle regulation, DNA replication or DNA damage response (PubMed:26299517, PubMed:27296872, PubMed:31911859, PubMed:34509474). Antagonizes the anaphase-promoting complex (APC/C) during G1/S

## Target Details

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transition by mediating deubiquitination of cyclin-A (CCNA1 and CCNA2), thereby promoting S phase entry. Specifically mediates deubiquitination of 'Lys-11'-linked polyubiquitin chains, a specific ubiquitin-linkage type mediated by the APC/C complex. Phosphorylation at Ser-628 during G1/S phase maximizes the deubiquitinase activity, leading to prevent degradation of cyclin-A (CCNA1 and CCNA2) (PubMed:21596315). Plays an important role in the regulation of DNA replication by stabilizing the licensing factor CDT1 (PubMed:27296872). Plays also an essential role beyond S-phase entry to promote the efficiency and fidelity of replication by deubiquitinating checkpoint kinase 1/CHK1, promoting its stability (PubMed:34509474). Sustains the DNA damage response (DDR) by deubiquitinating and stabilizing the ATP-dependent DNA helicase BLM (PubMed:34606619). Mechanistically, DNA double-strand breaks (DSB) promotes ATM-mediated phosphorylation of USP37 and enhances the binding between USP37 and BLM (PubMed:34606619). Promotes cell migration by deubiquitinating and stabilizing the epithelial-mesenchymal transition (EMT)-inducing transcription factor SNAI (PubMed:31911859). Plays a role in the regulation of mitotic spindle assembly and mitotic progression by associating with chromatin-associated WAPL and stabilizing it through deubiquitination (PubMed:26299517). {ECO:0000269|PubMed:21596315, ECO:0000269|PubMed:26299517, ECO:0000269|PubMed:27296872, ECO:0000269|PubMed:31911859, ECO:0000269|PubMed:34509474, ECO:0000269|PubMed:34606619}.

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Molecular Weight:	110.2 kDa
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UniProt:	<a href="#">Q86T82</a>
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## 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
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## 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