

Datasheet for ABIN7555925
USP4 Protein (AA 1-963) (His tag)



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Overview

Quantity:	1 mg
Target:	USP4
Protein Characteristics:	AA 1-963
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant USP4 Protein expressed in mammalian cells.
Sequence:	MAEGGGCRER PDAETQKSEL GPLMRTTLQR GAQWYLIDSR WFKQWKKYVG FDSWDMYNVG EHNLFPGPID NSGLFSDPES QTLKEHLIDE LDYVLVPTEA WNKLLNWWYGC VEGQQPIVRK VVEHGLFVKH CKVEVYLLEL KLCENS DPTN VLSCHF SKAD TIATIEKEMR KLFNIPAERE TRLWNKYMSN TYEQLSKLDN TVQDAGLYQG QVLVIEPQNE DGTWPRQTLQ SKSSTAPSRN FTTSPKSSAS PYSSVSASLI ANG DSTSTCG MHSSGVSRGG SGFSASYN CQ EPPSSHIQPG LCGLGNLGNT CFMNSALQCL SNTAPLTDYF LKDEYEAEIN RDNPLGMKGE IAEAYAE LK QMWSGRDAHV APRMFKTQVG RFAPQFSGYQ QQDSQELLAF LLDGLHEDLN RVKKKPYLEL KDANGRPDAV VAKEAWENHR LRND SVIVDT FHGLFKSTLV CPECAKVS VT FDPFCYLTLP LPLKKDRVME VFLVPADPHC RPTQYRVTV LMGAVSDLCE ALSRLSGIAA ENMVVADVYN HRFHKIFQMD EGLNHIMPRD DIFVYEV CST SVDGSECVTL PVYFRERKSR PSSTSSASAL YGQPLLLSVP KHKLTLES LY QAVCDRISRY VKQPLPDEFG SSPLEPGACN GSRNSCEGED EEEMEHQEEG KEQLSETEGS GEDEPGNDPS ETTQKKIKGQ PCPKRLFTFS LVNSYGTADI

Product Details

NSLAADGKLL KLNSRSTLAM DWDSETRRLY YDEQESEAYE KHVSMMLQPQK KKKTTVALRD
CIELFTTMET LGEHDPWYCP NCKKHQQATK KFDLWSLPKI LVVHLKRFSY NRYWRDKLDT
VVEFPIRGLN MSEFVCNLSA RPYVYDLIAV SNHYGAMGVG HYTAYAKNKL NGKWYYFDDDS
NVSLASEDQI VTAAAYVLFY QRRDDEFYKT PSLSSSGSSD GGTRPSSSQQ GFGDDEACSM DTN

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.

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.

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

Grade: custom-made

Target Details

Target: USP4

Alternative Name: USP4 ([USP4 Products](#))

Background: Ubiquitin carboxyl-terminal hydrolase 4 (EC 3.4.19.12) (Deubiquitinating enzyme 4) (Ubiquitin thioesterase 4) (Ubiquitin-specific-processing protease 4) (Ubiquitous nuclear protein homolog),FUNCTION: Deubiquitinating enzyme that removes conjugated ubiquitin from target proteins (PubMed:16316627, PubMed:16472766, PubMed:16339847, PubMed:20595234,

Target Details

PubMed:22347420, PubMed:25404403, PubMed:28604766, PubMed:30514904).
Deubiquitinates PDPK1 (PubMed:22347420). Deubiquitinates TRIM21 (PubMed:16316627).
Deubiquitinates receptor ADORA2A which increases the amount of functional receptor at the cell surface (PubMed:16339847). Deubiquitinates HAS2 (PubMed:28604766). Deubiquitinates RHEB in response to EGF signaling, promoting mTORC1 signaling (PubMed:30514904). May regulate mRNA splicing through deubiquitination of the U4 spliceosomal protein PRPF3 (PubMed:20595234). This may prevent its recognition by the U5 component PRPF8 thereby destabilizing interactions within the U4/U6.U5 snRNP (PubMed:20595234). May also play a role in the regulation of quality control in the ER (PubMed:16339847).
{ECO:0000269|PubMed:16316627, ECO:0000269|PubMed:16339847, ECO:0000269|PubMed:16472766, ECO:0000269|PubMed:20595234, ECO:0000269|PubMed:22347420, ECO:0000269|PubMed:25404403, ECO:0000269|PubMed:28604766, ECO:0000269|PubMed:30514904}.

Molecular Weight:	108.6 kDa
UniProt:	Q13107

Application Details

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

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