Datasheet for ABIN7555895

USP2 Protein (AA 1-605) (His tag)

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Overview

Quantity:	1 mg
Target:	USP2
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant USP2 Protein expressed in mammalian cells.
Sequence:	MSQLSSTLKR YTESARYTDA HYAKSGYGAY TPSSYGANLA ASLLEKEKLG FKPVPTSSFL TRPRTYGPSS LLDYDRGRPL LRPDITGGGK RAESQTRGTE RPLGSGLSGG SGFPYGVTNN CLSYLPINAY DQGVTLTQKL DSQSDLARDF SSLRTSDSYR IDPRNLGRSP MLARTRKELC TLQGLYQTAS CPEYLVDYLE NYGRKGSASQ VPSQAPPSRV PEIISPTYRP IGRYTLWETG KGQAPGPSRS SSPGRDGMNS KSAQGLAGLR NLGNTCFMNS ILQCLSNTRE LRDYCLQRLY MRDLHHGSNA HTALVEEFAK LIQTIWTSSP NDVVSPSEFK TQIQRYAPRF VGYNQQDAQE FLRFLLDGLH NEVNRVTLRP KSNPENLDHL PDDEKGRQMW RKYLEREDSR IGDLFVGQLK SSLTCTDCGY CSTVFDPFWD LSLPIAKRGY PEVTLMDCMR LFTKEDVLDG DEKPTCCRCR GRKRCIKKFS IQRFPKILVL HLKRFSESRI RTSKLTTFVN FPLRDLDLRE FASENTNHAV YNLYAVSNHS GTTMGGHYTA YCRSPGTGEW HTFNDSSVTP MSSSQVRTSD AYLLFYELAS PPSRM **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**

Product Details

	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:	USP2
Alternative Name:	USP2 (USP2 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 2 (EC 3.4.19.12) (41 kDa ubiquitin-specific protease) (Deubiquitinating enzyme 2) (Ubiquitin thioesterase 2) (Ubiquitin-specific-processing protease 2),FUNCTION: Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1 (PubMed:17290220, PubMed:19917254, PubMed:19838211). Isoform 1 and isoform 4 possess both ubiquitin-specific peptidase and isopeptidase activities (By similarity). Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity (PubMed:17290220, PubMed:19838211). Has no deubiquitinase activity against p53/TP53 (PubMed:17290220). Prevents MDM2-mediated degradation of MDM4 (PubMed:17290220). Plays a role in the G1/S cell-cycle progression in normal and cancer cells (PubMed:19917254). Regulates the circadian

Target Details

	clock by modulating its intrinsic circadian rhythm and its capacity to respond to external cues (By similarity). Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability (By similarity). Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and BMAL1 (By similarity). Plays a role in the regulation of myogenic differentiation of embryonic muscle cells (By similarity). {ECO:0000250|UniProtKB:O88623, ECO:0000250|UniProtKB:Q5U349, ECO:0000269|PubMed:17290220, ECO:0000269|PubMed:19838211, ECO:0000269|PubMed:19917254}., FUNCTION: [Isoform 4]: Circadian clock output effector that regulates Ca(2+) absorption in the small intestine. Probably functions by regulating protein levels of the membrane scaffold protein NHERF4 in a rhythmic manner, and is therefore likely to control Ca(2+) membrane permeability mediated by the Ca(2+) channel TRPV6 in the intestine. {ECO:0000250|UniProtKB:O88623}.
Molecular Weight:	68.1 kDa
UniProt:	O75604

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