

Datasheet for ABIN3096234 USP38 Protein (AA 1-1042) (Strep Tag)



Overview

Quantity:	250 µg
Target:	USP38
Protein Characteristics:	AA 1-1042
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP38 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MDKILEGLVS SSHPLPLKRV IVRKVVESAE HWLDEAQCEA MFDLTTRLIL EGQDPFQRQV
	GHQVLEAYAR YHRPEFESFF NKTFVLGLLH QGYHSLDRKD VAILDYIHNG LKLIMSCPSV
	LDLFSLLQVE VLRMVCERPE PQLCARLSDL LTDFVQCIPK GKLSITFCQQ LVRTIGHFQC
	VSTQERELRE YVSQVTKVSN LLQNIWKAEP ATLLPSLQEV FASISSTDAS FEPSVALASL
	VQHIPLQMIT VLIRSLTTDP NVKDASMTQA LCRMIDWLSW PLAQHVDTWV IALLKGLAAV
	QKFTILIDVT LLKIELVFNR LWFPLVRPGA LAVLSHMLLS FQHSPEAFHL IVPHVVNLVH
	SFKNDGLPSS TAFLVQLTEL IHCMMYHYSG FPDLYEPILE AIKDFPKPSE EKIKLILNQS
	AWTSQSNSLA SCLSRLSGKS ETGKTGLINL GNTCYMNSVI QALFMATDFR RQVLSLNLNG
	CNSLMKKLQH LFAFLAHTQR EAYAPRIFFE ASRPPWFTPR SQQDCSEYLR FLLDRLHEEE
	KILKVQASHK PSEILECSET SLQEVASKAA VLTETPRTSD GEKTLIEKMF GGKLRTHIRC
	LNCRSTSQKV EAFTDLSLAF CPSSSLENMS VQDPASSPSI QDGGLMQASV PGPSEEPVVY

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3096234 | 02/25/2025 | Copyright antibodies-online. All rights reserved. NPTTAAFICD SLVNEKTIGS PPNEFYCSEN TSVPNESNKI LVNKDVPQKP GGETTPSVTD LLNYFLAPEI LTGDNQYYCE NCASLQNAEK TMQITEEPEY LILTLLRFSY DQKYHVRRKI LDNVSLPLVL ELPVKRITSF SSLSESWSVD VDFTDLSENL AKKLKPSGTD EASCTKLVPY LLSSVVVHSG ISSESGHYYS YARNITSTDS SYQMYHQSEA LALASSQSHL LGRDSPSAVF EQDLENKEMS KEWFLFNDSR VTFTSFQSVQ KITSRFPKDT AYVLLYKKQH STNGLSGNNP TSGLWINGDP PLQKELMDAI TKDNKLYLQE QELNARARAL QAASASCSFR PNGFDDNDPP GSCGPTGGGG GGGFNTVGRL VF

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

• The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	USP38
Alternative Name:	USP38 (USP38 Products)
Background:	Ubiquitin carboxyl-terminal hydrolase 38 (EC 3.4.19.12) (Deubiquitinating enzyme 38)
	(HP43.8KD) (Ubiquitin thioesterase 38) (Ubiquitin-specific-processing protease 38),FUNCTION:
	Deubiquitinating enzyme that plays a role in various cellular processes, including DNA repair,
	cell cycle regulation, and immune response (PubMed:22689415, PubMed:30497519,
	PubMed:31874856, PubMed:35238669). Plays a role in the inhibition of type I interferon
	signaling by mediating the 'Lys-33' to 'Lys-48' ubiquitination transition of TBK1 leading to its
	degradation (PubMed:27692986). Cleaves the ubiquitin chain from the histone demethylase
	LSD1/KDM1A and prevents it from degradation by the 26S proteasome, thus maintaining LSD1
	protein level in cells (PubMed:30497519). Plays a role in the DNA damage response by
	regulating the deacetylase activity of HDAC1 (PubMed:31874856). Mechanistically, removes
	the 'Lys-63'-linked ubiquitin chain promoting the deacetylase activity of HDAC1 in response to
	DNA damage (PubMed:31874856). Acts also as a specific deubiquitinase of histone
	deacetylase 3/HDAC3 and cleaves its 'Lys-63'-linked ubiquitin chains to lower its histone
	deacetylase activity (PubMed:32404892). Regulates MYC levels and cell proliferation via
	antagonizing ubiquitin E3 ligase FBXW7 thereby preventing MYC 'Lys-48'-linked ubiquitination
	and degradation (PubMed:34102342). Participates in antiviral response by removing both 'Lys-
	48'-linked and 'Lys-63'-linked polyubiquitination of Zika virus envelope protein E
	(PubMed:34696459). Constitutively associated with IL-33R/IL1RL1, deconjugates its 'Lys-27'-
	linked polyubiquitination resulting in its autophagic degradation (PubMed:35238669).
	{ECO:0000269 PubMed:22689415, ECO:0000269 PubMed:27692986,
	ECO:0000269 PubMed:30497519, ECO:0000269 PubMed:31874856,
	EC0:0000269 PubMed:32404892, EC0:0000269 PubMed:34102342,

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Target Details	
	EC0:0000269 PubMed:34696459, EC0:0000269 PubMed:35238669}.
Molecular Weight:	116.5 kDa
UniProt:	Q8NB14
Application Details	
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.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Target Details

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