

Datasheet for ABIN3096155 USP37 Protein (AA 1-979) (Strep Tag)



Overview

Quantity:	250 µg
Target:	USP37
Protein Characteristics:	AA 1-979
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP37 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSPLKIHGPI RIRSMQTGIT KWKEGSFEIV EKENKVSLVV HYNTGGIPRI FQLSHNIKNV
	VLRPSGAKQS RLMLTLQDNS FLSIDKVPSK DAEEMRLFLD AVHQNRLPAA MKPSQGSGSF
	GAILGSRTSQ KETSRQLSYS DNQASAKRGS LETKDDIPFR KVLGNPGRGS IKTVAGSGIA
	RTIPSLTSTS TPLRSGLLEN RTEKRKRMIS TGSELNEDYP KENDSSSNNK AMTDPSRKYL
	TSSREKQLSL KQSEENRTSG LLPLQSSSFY GSRAGSKEHS SGGTNLDRTN VSSQTPSAKR
	SLGFLPQPVP LSVKKLRCNQ DYTGWNKPRV PLSSHQQQQL QGFSNLGNTC YMNAILQSLF
	SLQSFANDLL KQGIPWKKIP LNALIRRFAH LLVKKDICNS ETKKDLLKKV KNAISATAER
	FSGYMQNDAH EFLSQCLDQL KEDMEKLNKT WKTEPVSGEE NSPDISATRA YTCPVITNLE
	FEVQHSIICK ACGEIIPKRE QFNDLSIDLP RRKKPLPPRS IQDSLDLFFR AEELEYSCEK
	CGGKCALVRH KFNRLPRVLI LHLKRYSFNV ALSLNNKIGQ QVIIPRYLTL SSHCTENTKP
	PFTLGWSAHM AISRPLKASQ MVNSCITSPS TPSKKFTFKS KSSLALCLDS DSEDELKRSV

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 ABIN3096155 | 02/26/2025 | Copyright antibodies-online. All rights reserved. ALSQRLCEML GNEQQQEDLE KDSKLCPIEP DKSELENSGF DRMSEEELLA AVLEISKRDA SPSLSHEDDD KPTSSPDTGF AEDDIQEMPE NPDTMETEKP KTITELDPAS FTEITKDCDE NKENKTPEGS QGEVDWLQQY DMEREREEQE LQQALAQSLQ EQEAWEQKED DDLKRATELS LQEFNNSFVD ALGSDEDSGN EDVFDMEYTE AEAEELKRNA ETGNLPHSYR LISVVSHIGS TSSSGHYISD VYDIKKQAWF TYNDLEVSKI QEAAVQSDRD RSGYIFFYMH KEIFDELLET EKNSQSLSTE VGKTTRQAL

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 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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

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 2/4 | Product datasheet for ABIN3096155 | 02/26/2025 | Copyright antibodies-online. All rights reserved. • 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:	USP37
Alternative Name:	USP37 (USP37 Products)
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
	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,

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Target Details	
	ECO:0000269 PubMed:34606619}.
Molecular Weight:	110.2 kDa
UniProt:	Q86T82
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

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