Datasheet for ABIN3096109

UBE3C Protein (AA 1-1083) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	UBE3C
Protein Characteristics:	AA 1-1083
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE3C protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MFSFEGDFKT RPKVSLGGAS RKEEKASLLH RTQEERRKRE EERRRLKNAI IIQSFIRGYR DRKQQYSIQR SAFDRCATLS QSGGAFPIAN GPNLTLLVRQ LLFFYKQNED SKRLIWLYQN LIKHSSLFVK QLDGSERLTC LFQIKRLMSL CCRLLQNCND DSLNVALPMR MLEVFSSENT YLPVLQDASY VVSVIEQILH YMIHNGYYRS LYLLINSKLP SSIEYSDLSR VPIAKILLEN VLKPLHFTYN SCPEGARQQV FTAFTEEFLA APFTDQIFHF IIPALADAQT VFPYEPFLNA LLLIESRCSR KSGGAPWLFY FVLTVGENYL GALSEEGLLV YLRVLQTFLS QLPVSPASAS CHDSASDSEE ESEEADKPSS PEDGRLSVSY ITEECLKKLD TKQQTNTLLN LVWRDSASEE VFTTMASVCH TLMVQHRMMV PKVRLLYSLA FNARFLRHLW FLISSMSTRM ITGSMVPLLQ VISRGSPMSF EDSSRIIPLF YLFSSLFSHS LISIHDNEFF GDPIEVVGQR QSSMMPFTLE ELIMLSRCLR DACLGIIKLA YPETKPEVRE EYITAFQSIG VTTSSEMQQC IQMEQKRWIQ LFKVITNLVK MLKSRDTRRN FCPPNHWLSE QEDIKADKVT QLYVPASRHV WRFRRMGRIG

PLQSTLDVGL ESPPLSVSEE RQLAVLTELP FVVPFEERVK IFQRLIYADK QEVQGDGPFL DGINVTIRRN YIYEDAYDKL SPENEPDLKK RIRVHLLNAH GLDEAGIDGG GIFREFLNEL LKSGFNPNQG FFKTTNEGLL YPNPAAQMLV GDSFARHYYF LGRMLGKALY ENMLVELPFA GFFLSKLLGT SADVDIHHLA SLDPEVYKNL LFLKSYEDDV EELGLNFTVV NNDLGEAQVV ELKFGGKDIP VTSANRIAYI HLVADYRLNR QIRQHCLAFR QGLANVVSLE WLRMFDQQEI QVLISGAQVP ISLEDLKSFT NYSGGYSADH PVIKVFWRVV EGFTDEEKRK LLKFVTSCSR PPLLGFKELY PAFCIHNGGS DLERLPTAST CMNLLKLPEF YDETLLRSKL LYAIECAAGF ELS

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.

Product Details

- 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:	UBE3C
Alternative Name:	UBE3C (UBE3C Products)
Background:	Ubiquitin-protein ligase E3C (EC 2.3.2.26) (HECT-type ubiquitin transferase E3C) (Homologous to E6AP carboxyl terminus homologous protein 2) (HectH2) (RTA-associated ubiquitin ligase) (RAUL),FUNCTION: E3 ubiquitin-protein ligase that specifically catalyzes 'Lys-29'- and 'Lys-48'-linked polyubiquitin chains (PubMed:11278995, PubMed:12692129, PubMed:16341092, PubMed:16601690, PubMed:24811749, PubMed:24158444, PubMed:25752573, PubMed:25752577, PubMed:34239127, PubMed:33637724, PubMed:32039437). Accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:9575161, PubMed:32039437). Associates with the proteasome and promotes elongation of ubiquitin chains on substrates bound to the 26S proteasome (PubMed:24158444, PubMed:28396413, PubMed:31375563). Also catalyzes 'Lys-29'- and 'Lys-48'-linked ubiquitination of 26S proteasome subunit ADRM1/RPN13 in response to proteotoxic stress, impairing the ability of the proteasome to bind and degrade ubiquitin-conjugated proteins (PubMed:24811749, PubMed:31375563). Acts as a negative regulator of autophagy by mediating 'Lys-29'- and 'Lys-48'-linked ubiquitination of PIK3C3/VPS34, promoting its degradation (PubMed:33637724). Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'- or 'Lys-48'-linked polyubiquitin chains, with some preference for 'Lys-48' linkages (PubMed:11278995, PubMed:16601690, PubMed:25752577). Acts as a negative regulator of type I interferon by mediating 'Lys-48'-linked ubiquitination of IRF3 and IRF7, leading to their degradation by the proteasome (PubMed:21167755). Catalyzes ubiquitination and degradation of CAND2 (PubMed:12692129). {ECO:0000269|PubMed:11278995, ECO:0000269|PubMed:12692129, ECO:0000269|PubMed:16341092, ECO:0000269|PubMed:16601690,

Target Details

	ECO:0000269|PubMed:21167755, ECO:0000269|PubMed:24158444, ECO:0000269|PubMed:24811749, ECO:0000269|PubMed:25752573, ECO:0000269|PubMed:25752577, ECO:0000269|PubMed:28396413, ECO:0000269|PubMed:31375563, ECO:0000269|PubMed:32039437, ECO:0000269|PubMed:33637724, ECO:0000269|PubMed:34239127, ECO:0000269|PubMed:9575161}.
Molecular Weight:	123.9 kDa
UniProt:	Q15386

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.

Handling

Expiry Date:	12 months