Datasheet for ABIN3096192

UBE2O Protein (AA 1-1292) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	UBE2O
Protein Characteristics:	AA 1-1292
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2O protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MADPAAPTPA APAPAQAPAP APEAVPAPAA APVPAPAPAS DSASGPSSDS GPEAGSQRLL FSHDLVSGRY RGSVHFGLVR LIHGEDSDSE GEEEGRGSSG CSEAGGAGHE EGRASPLRRG YVRVQWYPEG VKQHVKETKL KLEDRSVVPR DVVRHMRSTD SQCGTVIDVN IDCAVKLIGT NCIIYPVNSK DLQHIWPFMY GDYIAYDCWL GKVYDLKNQI ILKLSNGARC SMNTEDGAKL YDVCPHVSDS GLFFDDSYGF YPGQVLIGPA KIFSSVQWLS GVKPVLSTKS KFRVVVEEVQ VVELKVTWIT KSFCPGGTDS VSPPPSVITQ ENLGRVKRLG CFDHAQRQLG ERCLYVFPAK VEPAKIAWEC PEKNCAQGEG SMAKKVKRLL KKQVVRIMSC SPDTQCSRDH SMEDPDKKGE SKTKSEAESA SPEETPDGSA SPVEMQDEGA EEPHEAGEQL PPFLLKEGRD DRLHSAEQDA DDEAADDTDD TSSVTSSASS TTSSQSGSGT SRKKSIPLSI KNLKRKHKRK KNKITRDFKP GDRVAVEVVT TMTSADVMWQ DGSVECNIRS NDLFPVHHLD NNEFCPGDFV VDKRVQSCPD PAVYGVVQSG DHIGRTCMVK WFKLRPSGDD VELIGEEEDV SVYDIADHPD FRFRTTDIVI

RIGNTEDGAP HKEDEPSVGQ VARVDVSSKV EVVWADNSKT IILPQHLYNI ESEIEESDYD SVEGSTSGAS SDEWEDDSDS WETDNGLVED EHPKIEEPPI PPLEQPVAPE DKGVVISEEA ATAAVQGAVA MAAPMAGLME KAGKDGPPKS FRELKEAIKI LESLKNMTVE QLLTGSPTSP TVEPEKPTRE KKFLDDIKKL QENLKKTLDN VAIVEEEKME AVPDVERKED KPEGQSPVKA EWPSETPVLC QQCGGKPGVT FTSAKGEVFS VLEFAPSNHS FKKIEFQPPE AKKFFSTVRK EMALLATSLP EGIMVKTFED RMDLFSALIK GPTRTPYEDG LYLFDIQLPN IYPAVPPHFC YLSQCSGRLN PNLYDNGKVC VSLLGTWIGK GTERWTSKSS LLQVLISIQG LILVNEPYYN EAGFDSDRGL QEGYENSRCY NEMALIRVVQ SMTQLVRRPP EVFEQEIRQH FSTGGWRLVN RIESWLETHA LLEKAQALPN GVPKASSSPE PPAVAELSDS GQQEPEDGGP APGEASQGSD SEGGAQGLAS ASRDHTDQTS ETAPDASVPP SVKPKKRRKS YRSFLPEKSG YPDIGFPLFP LSKGFIKSIR GVLTQFRAAL LEAGMPECTE DK

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 -

Product Details

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.
- 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:	UBE2O
Alternative Name:	UBE2O (UBE2O Products)
Background:	(E3-independent) E2 ubiquitin-conjugating enzyme (EC 2.3.2.24) (E2/E3 hybrid ubiquitin-protein ligase UBE2O) (Ubiquitin carrier protein O) (Ubiquitin-conjugating enzyme E2 O) (Ubiquitin-conjugating enzyme E2 of 230 kDa) (Ubiquitin-conjugating enzyme E2-230K) (Ubiquitin-protein ligase O),FUNCTION: E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). {ECO:0000269|PubMed:23381138, ECO:0000269|PubMed:23452853, ECO:0000269|PubMed:23455153, ECO:0000269|PubMed:24703950}.
Molecular Weight:	141.3 kDa
UniProt:	Q9C0C9

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