

Datasheet for ABIN3096164

UBA7 Protein (AA 1-1012) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	UBA7
Protein Characteristics:	AA 1-1012
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBA7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDALDASKLL DEELYSRQLY VLGSPAMQRI QGARVLVSGL QGLGAEVAKN LVLIMGVGSLT
LHDPHPTCWS DLAAQFLLSE QDLERSRAEA SQELLAQLNR AVQVVVHTGD ITEDLLLDLDFQ
VVVLTAACLE EQLKVGTLCH KHGVCFLAAD TRGLVGQLFC DFGEDFTVQD PTEAEPLTAA
IQHISQSPG ILTLRKGANT HYFRDGDVLT FSGIEGMVEL NDCDPRSIHV REDGSLEIGD
TTTFSRYLRG GAITEVKRPK TVRHKSLDTA LLQPHVVAQS SQEVHHAHCL HQAFCALHKF
QHLHGRPPQP WDPVDAETVV GLARDLEPLK RTEEEPLEEP LDEALVRTVA LSSAGVLSPM
VAMLGAVAAQ EVLKAISRKF MPLDQWLYFD ALDCLPEDGE LLSPEDCAL RGSRYDGQIA
VFGAGFQEKL RRQHYLLVGA GAIGCELLKV FALVGLGAGN SGGLTVVDM HIERSNLSRQ
FLFRSQDVGR PKAEVAAAAA RGLNPDLQVI PLTYPLDPTT EHIYGDNFFS RVDGVAAALD
SFQARRYVAA RCTHYLKPLL EAGTSGTWGS ATVFMPHVTE AYRAPASAAA SEDAPYPVCT
VRYFPSTA EH TLQWARHEFE ELFRLSAETI NHHQQAHTSL ADMDEPQTLT LLKPVLGVLR
VRPQNWQDCV AWALGHWKLC FHYGIKQLLR HFPPNKVLED GTPFWSGPKQ CPQPLEFDTN

QDTHLLYVLA AANLYAQMHG LPGSQDWTAL RELLKLLPQP DPQQMAPIFA SNLELASASA
EFGPEQQKEL NKALEVWSVG PPLKPLMFEK DDDSNFHVDF VVAAASLRCQ NYGIPPVNRA
QSKRIVGQII PAIATTTAAV AGLLGLELYK VVSGPRPRSA FRHSYLHLAE NYLIRYMPFA
PAIQTFHHLK WTSWDRLKVP AGQPRTLLES LLAHLQEYHG LRVRIILLHGS ALLYAAGWSP
EKQAQHLPLR VTELVQQLTG QAPAPGQRVL VLELSCEGDD EDTAFPPLHY EL

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its

Product Details

specific reference buffer.

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	UBA7
Alternative Name:	UBA7 (UBA7 Products)
Background:	Ubiquitin-like modifier-activating enzyme 7 (Ubiquitin-activating enzyme 7) (EC 6.2.1.-) (D8) (Ubiquitin-activating enzyme E1 homolog),FUNCTION: E1-activating enzyme that catalyzes the covalent conjugation of the ubiquitin-like protein product of ISG15 to additional interferon stimulated proteins (ISGs) as well as other cellular proteins such as P53 in a process termed protein ISGylation (PubMed:27545325). Plays an essential role in antiviral immunity together with ISG15 by restricting the replication of many viruses including rabies virus, influenza virus, sindbis virus, rotavirus or human cytomegalovirus (PubMed:16254333, PubMed:19073728, PubMed:29056542, PubMed:29743376, PubMed:37722521). For example, ISG15 modification of influenza A protein NS1 disrupts the association of the NS1 with importin-alpha leading to NS1 nuclear import inhibition (PubMed:20133869). ISGylation of human cytomegalovirus protein UL26 regulates its stability and inhibits its activities to suppress NF-kappa-B signaling (PubMed:27564865). {ECO:0000269 PubMed:16254333, ECO:0000269 PubMed:19073728, ECO:0000269 PubMed:20133869, ECO:0000269 PubMed:27545325, ECO:0000269 PubMed:27564865, ECO:0000269 PubMed:29056542, ECO:0000269 PubMed:29743376, ECO:0000269 PubMed:37722521}.
Molecular Weight:	111.7 kDa

Target Details

UniProt: [P41226](#)

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process