

Datasheet for ABIN3096208

UBA6 Protein (AA 1-1052) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	UBA6
Protein Characteristics:	AA 1-1052
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBA6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MEGSEPVAAH QGEEASCSSW GTGSTNKNLP IMSTASVEID DALYSRQRYV LGDTAMQKMA KSHVFLSGMG GLGLEIAKNL VLAGIKAVTI HDTEKCQAWD LGTNFFLSED DVVNKRNRAE AVLKHIAELN PYVHTSSSV PFNETDLSF LDKYQCVLT EMKLPLQKKI NDFCRSQCPP IKFISADVHG IWSRLFCDFG DEFEVLDTTG EEPKEIFISN ITQANPGIVT CLENHPHKLE TGQFLTFREI NGMTGLNGSI QQITVISPF SFGDTTELE PYLHGGIAVQ VKTPKTVFFE SLERQLKHPK CLIVDFSNPE APLEIHTAML ALDQFQEKYS RKPNGVCQD SEELLKLATS ISETLEEKPD VNADIVHWLS WTAQGFLSPL AAVGGVASQ EVLKAVTGKF SPLCQWLYLE AADIVESLGK PECEEFLPRG DRYDALRACI GDTLCQKLQN LNIFLVGCGA IGCEMLKNFA LLGVGTSKEK GMITVTDPL IEKSNLNRQF LFRPHHIQKP KSYTAADATL KINSQIKIDA HLNKVCPTTE TIYNDEFYTK QDVIITALDN VEARRYVDSR CLANLRPLLD SGTMGTKGHT EVIVPHLTES YNSHRDPPEE EIPFCTLKSF PAAIEHTIQW ARDKFESSFS HKPSLFNKF QTYSSAAEVL QKIQSGHSLE GCFQVIKLLS RRPRNWSQCV ELARLKFEKY FNHKALQLLH
-----------	---

CFPLDIRLKD GSLFWQSPKR PPSPIKFDLN EPLHLSFLQN AAKLYATVYC IPFAEEDLSA
DALLNILSEV KIQEFKPSNK VVQTDETARK PDHVPISSED ERNAIFQLEK AILSNEATKS
DLQMAVLSFE KDDDHNGHID FITAASNLR KMYSEPADR FKTKRIAGKI IPAIAITTTAT
VSGLVALEMI KVTGGYPFEA YKNCFLNLAI PIVVFTETTE VRKTKIRNGI SFTIWDRWTV
HGKEDFTLLD FINAVKEKYG IEPTMVVQGV KMLYVPVMPG HAKRLKLTMH KLVKPTTEKK
YVDLTVSFAP DIDGDEDLPG PPVRYFSD TD

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.

Product Details

- The protein's absorbance will be measured in several dilutions and is measured against its 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®): 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:	UBA6
Alternative Name:	UBA6 (UBA6 Products)
Background:	Ubiquitin-like modifier-activating enzyme 6 (Ubiquitin-activating enzyme 6) (EC 6.2.1.45) (Monocyte protein 4) (MOP-4) (Ubiquitin-activating enzyme E1-like protein 2) (E1-L2),FUNCTION: Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34. Essential for embryonic development. Required for UBD/FAT10 conjugation. Isoform 2 may play a key role in ubiquitin system and may influence spermatogenesis and male fertility. {ECO:0000269 PubMed:15202508, ECO:0000269 PubMed:17597759, ECO:0000269 PubMed:17889673}.
Molecular Weight:	118.0 kDa
UniProt:	A0AVT1

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
--------------------	---

Application Details

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