

Datasheet for ABIN3110985

## ATP10B Protein (AA 1-1461) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	ATP10B
Protein Characteristics:	AA 1-1461
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP10B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>MALSVDSSWH RWQWRVRDGF PHCPSETTPL LSPEKGRQSY NLTQQRVVFP NNSIFHQDWE EVSRRYPG NR TCTTKYTLFT FLPRNLFEQF HRWANLYFLF LVILNWMPSM EVFHREITML PLAIVLFVIM IKDGMEDFKR HRFDKAINCS NIRIYERKEQ TYVQKCWKDV RVGDFIQMKC NEIVPADILL LFSSDPNGIC HLETASLDGE TNLKQRCVVK GFSQQEVQFE PELFHNTIVC EKPNHNLNKF KGYMEHPDQT RTGFGCESLL LRGCTIRNTE MAVGIVYAG HETKAMLNNS GPRYKRSKIE RRMNIDIFFC IGILILMCLI GAVGHSIWN G TFEHPPFDV PDANGSFLPS ALGGFYMFLT MIILLQVLIP ISLYVSIELV KLGQVFFLSN DLDLYDEETD LSIQCRA LNI AEDLGQIQYI FSDKTGTLTE NKMVFRRICTI MGSEYSHQEN AKRLETPKEL DSDGEEWTQY QCLSFSARWA QDPATMRSQK GAQPLRRSQS ARVPIQGHYR QRSMGHRSS QPPVAFSSSI EKDVTPDKNL LTKVRDAALW LETLSDSRPA KASLSTTSSI ADFFLALTIC NSVMVSTTTE PRQRVTIKPS SKALGTSLEK IQQLFQK LKL LSLSQSFSST APSDTDLGES LGANVATTDS DERDDASVCS GGDSTDDGGY RSSMWDQGDI LESGSGTSLE EALEAPATDL ARPEFCYEAE SPDEAALVHA</p>
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AHAYSFTLVS RTPEQVTVRL PQGTCLTFSL LCTLGFDSVR KRMSVVRHP LTGEIVVYTK  
GADSVIMDLL EDPACVPDIN MEKKLRKIRA RTQKHLDLA RDGLRTLCA KKVSEEDFR  
RWASFRREAE ASLDNRDELL METAQHLENQ LTLLGATGIE DRLQEGVPDT IATLREAGIQ  
LWVLTGDKQE TAVNIAHSCR LLNQTDVYVY INTENQETCE SILNCALEEL KQFRELQKPD  
RKLFGFRLPS KTPSITSEAV VPEAGLVIDG KTLNAIFQGK LEKKFLELTQ YCRSVLCCRS  
TPLQKSMIVK LVRDKLRVMT LSIGDGANDV SMIQAADIGI GISGQEGMQA VMSSDFAITR  
FKHLKLLLLV HGHWCYSRLA RMVYYYLYKN VCYVNLFWY QFFCGFSSST MIDYWQMIFF  
NLFFTSLPPL VFGVLDKDIS AETLLALPEL YKSGQNSECY NLSTFWISMV DAFYQSLICF  
FIPYLAYKGS DIDVFTFGTP INTISLTTIL LHQAMEMKTW TIFHGVLLG SFLMYFLVSL  
LYNATCVICN SPTNPFYVME GQLSNPTFYL VCFLTPVVAL LPRYFFLSLQ GTCGKSLISK  
AQKIDKLPPD KRNLEIQSWR SRQRPAPVPE VARPTHHPVS SITGQDFSAS TPKSSNPPKR  
KHVEESVLHE QRCGTECMRD DSCSGDSSAQ LSSGEHLLGP NRIMAYSRGQ TDMCRCSKRS  
SHRRSQSSLT I

**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.**

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### 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

## Product Details

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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 specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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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

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Target:	ATP10B
Alternative Name:	ATP10B ( <a href="#">ATP10B Products</a> )
Background:	Phospholipid-transporting ATPase VB (EC 7.6.2.1) (ATPase class V type 10B) (P4-ATPase flippase complex alpha subunit ATP10B),FUNCTION: Catalytic component of a P4-ATPase flippase complex, which catalyzes the hydrolysis of ATP coupled to the transport of glucosylceramide (GlcCer) from the outer to the inner leaflet of lysosome membranes. Plays an important role in the maintenance of lysosome membrane integrity and function in cortical neurons. {ECO:0000269 PubMed:32172343}.
Molecular Weight:	165.4 kDa
UniProt:	<a href="#">O94823</a>

## Application Details

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**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.

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**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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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