

Datasheet for ABIN3134742

## ATP11A Protein (AA 1-1187) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ATP11A
Protein Characteristics:	AA 1-1187
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP11A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDCSLLRTL V RRYCAGEENW VDSRTIYVGH KEPPPGAEAY IPQRYPDNRI VSSKYTFWNF</p> <p>IPKNLFEQFR RIANFYFLII FLVQLIIDTP TSPVTSGLPL FFVITVTAIK QGYEDWLRHK</p> <p>ADNAMNQCPV HFIQHGKLVR KQSRKLRVGD IVMVKEDET FPCDLIFLSSN RADGTCHVTT</p> <p>ASLDGESSHK THYAVQDTKG FHTEADVDSL HATIECEQPQ PDLYKFVGRI NVYNDLNDPV</p> <p>VRPLGSENLL LRGATLKNT E KIFGVAITG METKMALNYQ SKSQKRSAYE KSMNTFLIVY</p> <p>LCILVSKALI NTVLKYYVQS EPFRDEPWYN EKTESERQRN LFLRAFTDFL AFMVLFNYII</p> <p>PVSMYVTVEM QKFLGSYFIT WDEDMFDEEM GEGPLVNTSD LNEELGQVEY IFTDKTGTLT</p> <p>ENNMAFKECC IEGHVYVPHV ICNGQVLPDS SGIDMIDSSP GVCGREREEL FFRAICLCHT</p> <p>VQVKDDHCGD DVDGPQKSPD AKSCVYISSS PDEVALVEGV QRLGFTYLR L KDNIMEILNR</p> <p>ENDIERFELL EVLTFDSVRR RMSVIVKSTT GEIYLFCKGA DSSIFPRVIE GKVDQVRSRV</p> <p>ERNAVEGLRT LCVAYKRLEP EQYEDACRL L QSAKVALQDR EKKLAEAYEQ IEKDLVLLGA</p>

TAVEDRLQEK AADTIEALQK AGIKVWVLTG DKMETASATC YACKLFRRST QLELTTKKL  
EEQSLHDVLF DLSKTVLRCS GSMTRDSFSG LSTDMHDYGL IIDGAALSLI MKPREDGSSS  
GNYRELFLEI CRNCSAVLCC RMAPLQKAQI VKLIKFSKEH PITLAIGDGA NDVSMILEAH  
VGIGVIGKEG RQAARNSDYA IPKFKHLKKM LLVHGHFYYI RISELVQYFF YKNVCFIFPQ  
FLYQFFCGFS QQTLYDTAYL TLYNISFTSL PILLYSLMEQ HVGIDVLKRD PTLYRDIKN  
ALLRWRVFIY WTFLGVFDAL VFFFGAYFIF ENTTVTINGQ MFGNWTFGTL VFTVMVLTVT  
LKLALDTHYW TWINHFVIWG SLLFYIAFSL LWGGVIWPFL SYQRMYYVFI SMLSSGPAWL  
GIILLVTVGL LPDVLKKVLC RQLWPTATER TQNIQHQDSI SEFTPLASLP SWGAQGSRL  
AAQCSSPSGR VVCSRWESEE CPVLPLHPGL PHKARYGCC R SLEMP T

**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 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!

## Product Details

### 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: ATP11A

Alternative Name: Atp11a ([ATP11A Products](#))

Background: Phospholipid-transporting ATPase 1H (EC 7.6.2.1) (ATPase IS) (ATPase class VI type 11A) (P4-ATPase flippase complex alpha subunit ATP11A),FUNCTION: Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids, phosphatidylserines (PS) and phosphatidylethanolamines (PE), from the outer to the inner leaflet of the plasma membrane (By similarity). Does not show flippase activity toward phosphatidylcholine (PC) (By similarity). Contributes to the maintenance of membrane lipid asymmetry with a specific role in morphogenesis of muscle cells. In myoblasts, mediates PS enrichment at the inner leaflet of plasma membrane, triggering PIEZO1-dependent Ca<sup>2+</sup> influx and Rho GTPases signal transduction, subsequently leading to the assembly of cortical actomyosin fibers and myotube formation (PubMed:29799007). {ECO:0000250|UniProtKB:P98196, ECO:0000269|PubMed:29799007}.

Molecular Weight: 135.5 kDa

UniProt: [P98197](#)

## 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

Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months