



[Go to Product page](#)

Datasheet for ABIN3134742
ATP11A Protein (AA 1-1187) (Strep Tag)

Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | ATP11A |
| Protein Characteristics: | AA 1-1187 |
| Origin: | Mouse |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ATP11A protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

| | |
|-----------|--|
| Sequence: | MDCSLLRTLTV RRYCAGEENW VDSRTIYVGH KEPPPGAEAY IPQRYPDNRI VSSKYTFWNF IPKNLFEQFR RIANFYFLII FLVQLIIDTP TSPVTSGLPL FFVITVTAIK QGYEDWLRHK ADNAMNQCPV HFIQHGLVLR KQSRKLRVGD IVMVKEETF PCDLIFLSSN RADGTCHVTT ASLDGESSHK THYAVQDTKG FHTEADVDSL HATIECEQPQ PDLYKFVGR I NVYNDLNDPV VRPLGSENL LRGATLK NTE KIFGVAIYTG METKMALNYQ SKSQKRSAVE KSMNTFLIVY LCILVSKALI NTVLKYYVWQS EPFRDEPWYN EKTESERQRN LFLRAFTDFL AFMVLFNYII PVSMYVTVEM QKFLGSYFIT WDEDMFDEEM GEGPLVNTSD LNEELGQVEY IFTDKTGTLT ENNMAFKECC IEGHVYVPHV ICNGQVLPDS SGIDMIDSSP GVCGREREEL FFRAICLCHT VQVKDDHCGD DVDGPQKSPD AKSCVYISS PDEVALVEGV QRLGFTYLR L KDNIMEILNR ENDIERFELL EVLTFDSVRR RMSVIVKSTT GEIYLFCKGA DSSIFPRVIE GKVDQVRSRV ERNAVEGLRT LCVAYKRLEP EQYEDACRLL QSAKVALQDR EKKLAEAYEQ IEKDLVLLGA TAVEDRLQEK AADTIEALQK AGIKVWVLTG DKMETASATC YACKLFRRST QLLELTTKKL |
|-----------|--|

EEQSLHDVLF DLSKTVLRCS GSMTRDSFSG LSTDMHDYGL IIDGAALSLI MKPREDGSSS
GNYRELFLEI CRNCSAVLCC RMAPLQKAQI VKLIKFSKEH PITLAIGDGA NDVSMILEAH
VGIGVIGKEG RQAARNSDYA IPKFKHLKMM LLVHGHFYI RISELVQYFF YKNVCFIFPQ
FLYQFFCGFS QQTLYDTAYL TLYNISFTSL PILLYSLMEQ HVGIDVLKRD PTLYRDIAKN
ALLRWRVFIY WTFLGVFDAL VFFFGAYFIF ENTTVTINGQ MFGNWTFGTL VFTVMMLTVT
LKLALDTHYW TWINHFVIWG SLLFYIAFSL LWGGVIWPFL SYQRMYYVFI SMLSSGPAWL
GIILLVTVGL LPDVLKVKLC RQLWPTATER TQNIHQDSI SEFTPLASLP SWGAQGSRL
AAQCSSPSGR VVCSRWESEE CPVLPLHPGL PHKARYGCCR SSEMPT

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!

Product Details

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.

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)

Target Details

Target:

ATP11A

Alternative Name:

Atp11a ([ATP11A Products](#))

Background:

Phospholipid-transporting ATPase IH (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 Ca²⁺ 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 *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)
