

Datasheet for ABIN3119312

ATP11B Protein (AA 1-1177) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ATP11B
Protein Characteristics:	AA 1-1177
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP11B protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MWRWIRQQLG FDPHQSDTR TIYVANRFPQ NGLYTPQKFI DNRISSKYT VWNFVPKNLF</p> <p>EQFRRVANFY FLIIFLVQLM IDTPTSPVTS GLPLFFVITV TAIKQGYEDW LRHNSDNEVN</p> <p>GAPVYVVRSG GLVKTRSKNI RVGDIVRIAK DEIFPADLVL LSSDRLDGSC HVTTASLDGE</p> <p>TNLKTHVAVP ETALLQTVAN LDTLVAVIEC QQPEADLYRF MGRMIITQQM EEIVRPLGPE</p> <p>SLLLRGARLK NTKEIFGVAV YTGMEKTMAL NYKSKSQKRS AVEKSMNTFL IYLVILISE</p> <p>AVISTILKYT WQAEKEWDEP WYNQKTEHQR NSSKILRFIS DFLAFLVLYN FIIPISLYVT</p> <p>VEMQKFLGSF FIGWDLDYH EESDQKAQVN TSDLNEELGQ VEYVFTDKTG TLTENEMQFR</p> <p>ECSINGMKYQ EINGRLVPEG PTPDSSEGNL SYLSSLSHLN NLSHLTTSSS FRTSPENETE</p> <p>LIKEHDLFFK AVSLCHTVQI SNVQTDCTGD GPWQSNLAPS QLEYAYSSPD EKALVEAAAR</p> <p>IGIVFIGNSE ETMEVKTLGK LERYKLLHIL EFDSRRRMS VIVQAPSGEK LLFAKGAESS</p> <p>ILPKCIGGEI EKTRIHVDEF ALKGLRTLCL AYRKFTSKEY EEIDKRIFEA RTALQQREEK LAAVFQFIEK</p>

DLILLGATAV EDRLQDKVRE TIEALRMAGI KVVVLTGDKH ETAVSVSLSC GHFHRTMNIL
ELINQKSDSE CAEQLRQLAR RITEDHVIQH GLVVDGTSLS LALREHEKLF MEVCRNCSAV
LCCRMAPLQK AKVIRLIKIS PEKPITLAVG DGANDVSMIQ EAHVGIGIMG KEGRQAARNS
DYAIARFKFL SKLLFVHGHEF YYIRIATLVQ YFFYKNVCFI TPQFLYQFYC LFSQQTLYDS
VYLTLYNICF TSLPILYSL LEQHVDPHVL QNKPTLYRDI SKNRLLSIKT FLYWTILGFS HAFIFFFGSY
LLIGKDTSLG GNGQMFGNWT FGTLVFTVMV ITVTVKMALE THFWTWINHL VTWGSIIIFY
VFSLFYGGIL WPFLGSQNMV FVFIQLLSSG SAWFAILMV VTCLFLDIK KVFDRLHPT
STKAQLTET NAGIKCLDSM CCFPEGEAAC ASVGRMLERV IGRCSPTGIS RSWSASDPFY
TNDRSILTLS TMDSSSTC

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 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: ATP11B

Alternative Name: ATP11B ([ATP11B Products](#))

Background: Phospholipid-transporting ATPase IF (EC 7.6.2.1) (ATPase IR) (ATPase class VI type 11B) (P4-ATPase flippase complex alpha subunit ATP11B),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 intracellular membranes (PubMed:30018401). May contribute to the maintenance of membrane lipid asymmetry in endosome compartment (PubMed:30018401). {ECO:0000269|PubMed:30018401}.

Molecular Weight: 134.2 kDa

UniProt: [Q9Y2G3](#)

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.

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