

Datasheet for ABIN3135845

ATP8B3 Protein (AA 1-1335) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	ATP8B3
Protein Characteristics:	AA 1-1335
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8B3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MDGVHLGENL EDKDTEFTWE VKANDRTYHK QFKKKGFLCW RQKKYKSNAI HTAKYNIFSF</p> <p>LPLNLYEQFH RMSNLYFLFI IILQGIPEIS TLPWFTLFAP LVCLFVIRAT RDLVDDIGRH RSDKIINNRP</p> <p>CQILRGKSFL WKKWKNLCVG DVVCLSKDSI VPADLLLLAS TEPSSLCYVE TADIDGETNL</p> <p>KFRQALTVTH HELTSPKKMA SFQGTVTCEE PNSRMHHFVG SLEWNSRKYP LDIGNLLLRG</p> <p>CKIRNTDTCY GLVIYAGLDT KIMKNCCKIH LKRTKLDLMM NKLVALIFLS LVIASLLLTV</p> <p>GFTFMVKQFK AKHYMSPH GRSDAMESFF IFWGLILLS VMVPMAMFII AEFIYLGNSI</p> <p>FINWDLNMYE EPLDMPAKAR STSLNDQLGQ VQYIFSDKTG TLTQNMFTK KCCINGCIYD</p> <p>SDDEHGTLRK RNPYAWNPF A DGKLQFYNKE LESLVQGRQD RAVQEFWRLL AICHTVMVQE</p> <p>KDNQLLYQAA SPDEEALVTA ARNFGYVFLS RTQDITLVE LGEERVYQVL AMMDFNSVRK</p> <p>RMSVLVRNPE GSICLYTKGA DTVILERLRS KGVMEATTEE VLAFAEQTL RTLCLAYKDV</p> <p>EEDAYKEWEP EHQAALLLQ NRAQALHQVY NKMEQNLQLL GATAIEDKLQ DGVPETIKCL</p>

KKGNIKIWVL TGDKPETAVN IGFAQQLLSE NMILEDKDI NQVLERYWED NVHQKAFKMM
THHNMALVIN GEFLDQLLLS LRKEPRALVQ NAVVDEVAQE PVVSALDFLQ KRRISQMWRN
AGPSLGTSHS ADSKIRESPV VQRERAFVDL ASKCQAVICC RVTPKQKALV VALVKKYQQV
VTLAIGDGAN DVNMIKTADI GVGLAGQEGM QAVQNSDYVL AQFCYLQRLI LVHGRWSYMR
VCKFLRYFFY KTVASMMMAQI WFSLVNGFSA QPLYEGWFLA LFNLLYSTLP VLYIGLFEQD
VTAEKSLKMP ELYMAGQKGE LFNYSIFMQA ITHGTITSMI NFFVTVMVSS DMSKAGSSHD
YQSLGVLVAI SSLLSVTLEV MLVVKYWTLI FVGAVLSLS SYVLMSTLTQ SLWMYRISPK
TFPFLFADYN VLFEPCLLL IVLNVALNVL PMLALRTIHR TVLKQRPKGE EEAPSEEVAV
EPAMRHLRRG IPARRSSYAF SHREGYANLI TQGTILRRQT HVDDSDGGTV CESLNPPEED
IPLQNKDSVF NPRKISILAK KRRHFFGKGS QEEVHPNTSS QTMEKQPTIH RDESETQKLPT
TTSATSGKLL PSASEDEAFY SVASQYTLAS QPKHTDVHSS FWKSPLWRDS ASSSPSQLEV PRKQS

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

Product Details

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 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:	ATP8B3
Alternative Name:	Atp8b3 (ATP8B3 Products)
Background:	Phospholipid-transporting ATPase 1K (EC 7.6.2.1) (ATPase, class I, type 8B, member 3) (Sperm aminophospholipid transporter) (SAPLT),FUNCTION: P4-ATPase flippase which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids (PubMed:14975727, PubMed:19017724). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (PubMed:14975727). May be responsible for the maintenance of asymmetric distribution of phosphatidylserine (PS) in spermatozoa membranes (PubMed:14975727). Involved in acrosome reactions and binding of spermatozoa to zona pellucida (PubMed:19017724). {ECO:0000269 PubMed:14975727, ECO:0000269 PubMed:19017724}.
Molecular Weight:	152.0 kDa
UniProt:	Q6UQ17

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
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Application Details

guarantee though.

Comment:

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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 **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