

Datasheet for ABIN3130875
Atp8b5 Protein (AA 1-1183) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Atp8b5 (ATP8B5)
Protein Characteristics:	AA 1-1183
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Atp8b5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MKYVKAFVSE ISWDCSWYCS AMQERRNEDR QKEEEERILQ ANNRRFNSLF EYPDNSIKTS KYGFFNFLPM NLFEQFQRLA NAYFLILLFL QLVPQISSLA WYTTVIPLIV VLSITGVKDA IDDVKRHRSD QQINNRSVSI LVNGRVEEIK WRNVQVGDII KLENNHPVTA DMLLLSSSEP YGLTYIETAD LDGETNLKVK QAISVTSAME DNLELLSSFN GEVRCPPNN KLDKFSGLTS YLGNTYLLNH ERLLLRGCVI RNTDWCYGLV VYTGQDTKLM QNSGRSTFKR THIDHLMNVL VWWIFMFLGG MCFLLSIGHG IWENSRGYFF QAFLPWKHYI TSSATSSALI FWSYFIVLNT MVPISLYVSV EIIRLGNSYY INWDRKMFYA PKNMPAQART TTLNEELGQV QYVFSDKTGT LTENVMIFNK CSINGKTYGY SYDDNGEYVP KSPKDKVDFS YNHLADPKFS FYDKTLVEAV KSEDPLVYLF FLCLSLCHTV MSEEKVEGEL VYQAQSPDEG ALVTATRNFG VFVCSRTPET ITVIEMGKIR VYRLLAILDF SNERKRMSVI VRTPEDRVML FCKGADTIY ELLHPSCASL SEVTMDHLDD FASEGLRTL M VAYRELDKAY FQTWIKKHGE AWLTLENRER KLALVYEEIE

RDLMLLGATA IEDKLQRGVP ETIVTLKAK IKIWVLTGDK QETAVNIAYS CRIFKDEMDG
VFMVEGTDRE TVLEELRTAR KKMKPESLLE SDPINMYLAR KPKMPFKSLD EVANGNYGLV
ISGYSLAYAL EGSLEFELLR TACMCKGVVC CRMTPLQKAQ VVDLVKRYKK VVTLAIGDGA
NDISMIKAAH IGVGISNQEG MQATLSSDFS FCQFHFLQRL LLVHGRLSYN RMCKFLSYFF
YKNFAFTLVH FWYAFFNGFS AQTVDIWF I TFYNLIYTSL PVLGLSLFEK DVNETWSLCY
PELYEPGQHN LYFNKKEFKV CLLHGIYNSF VLFFVPMGTV FNSERNKGK ISDFQSFSL
VQTTLIGVMT MQIALRTTSW TMINHTFTWG SLGLYFCILI LLCSDGLCLR YPSIFNGLV
ARNLSQPQI WLCLILSTIL CMIPLIGYNF LRPLLWPINA DKVLNRIHFC LKHPIPTQVQ
TKIKHPSLRR SAYAFSHKQG FGALITSGKT LKSSALAKSK RFL

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: Atp8b5 (ATP8B5)

Alternative Name: Atp8b5

Background: Phospholipid-transporting ATPase FetA (EC 7.6.2.1) (ATPase class I type 8B member 2-like protein) (ATPase class I type 8B member 5) (Flippase expressed in testis A),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. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. May play a role in phospholipid transport across membranes and in acrosome formation. {ECO:0000269|PubMed:19657017}.

Molecular Weight: 135.9 kDa

UniProt: [A3FIN4](#)

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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Application Details

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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