

Datasheet for ABIN3116914

## ATP8B4 Protein (AA 1-1192) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ATP8B4
Protein Characteristics:	AA 1-1192
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8B4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MFCSEKKLRE VERIVKANDR EYNEKFQYAD NRIHTSKYNI LTFLPINLFE QFQRVANAYF</p> <p>LCLLILQLIP EISSLTWFTT IVPLVLVITM TAVKDATDDY FRHKSDNQVN NRQSEVLINS</p> <p>KLQNEKWMNV KVGDIKLEN NQFVAADLLL LSSSEPHGLC YVETAELDGE TNLKVRHALS</p> <p>VTSELGADIS RLAGFDGIVV CEVPPNNKLDK FMGILSWKDS KHSLNNEKII LRGCILRNST</p> <p>WCFGMVIFAG PDKLQMNSG KTKFKRTSID RLMNTLVLWI FGFLICLGII LAIGNSIWES</p> <p>QTGDQFRTFL FWNEGEKSSV FSGFLTFSY IILNTVWPI SLYVSVEVIR LGHSYFINWD</p> <p>RKMYYSRKAI PAVARTTTLN EELGQIEYIF SDKTGTLTQN IMTFKRC SIN GRIYGEVHDD</p> <p>LDQKTEITQE KEPVDFSVKS QADREFQFFD HHLMESIKMG DPKVHEFLRL LALCHTVMSE</p> <p>ENSAGELIYQ VQSPDEGALV TAARNFGFIF KSRTPETITI EELGTLVTYQ LLAFLDFNNT</p> <p>RKRMSVIVRN PEGQIKLYSK GADTILFEKL HPSNEVLLSL TSDHLSEFAG EGLRTLAIAY</p> <p>RDLDDKYFKE WHKMLEDANA ATEERDERIA GLYEEIERDL MLLGATAVED KLQEGVIETV</p>

TSLSLANIKI WVLTGDKQET AINIGYACNM LTDDMNDV FV IAGNNAVEVR EELRKAKQNL  
FGQNRNFSNG HVVCEKKQQL ELDSIVEETI TGDYALIING HSLAHALESD VKNDLLELAC  
MCKTVICCRV TPLQKAQWE LVKKYRNAVT LAIGDGANDV SMIKSAHIGV GISGQEGLQA  
VLASDYSFAQ FRYLQRLLLV HGRWSYFRMC KFLCYFFYKN FAFTLVHFWF GFFCGFSAQT  
VYDQWFITLF NIVYTSLPVL AMGIFDQDVS DQNSVDCPQL YKPGQLNLLF NKRKFFICVL  
HGIYTSVLVF FIPYGAFYNV AGEDGQHIAD YQSFAVTMAT SLVIVVSVQI ALDTSYWTFI  
NHVFIWGSIA IYFSILFTMH SNGIFGIFPN QPFPVGNARH SLTQKCIWLV ILLTTVASVM  
PVVAFRFLKV DLYPTLSDQI RRWQKAQKKA RPPSSRRPRT RRSSRRSGY AFAHQEGYGE  
LITSGKNMRA KNPPPTSGLE KTHYNSTSWI ENLCKKTTDT VSSFSQDKTV KL

**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: ATP8B4

Alternative Name: ATP8B4 ([ATP8B4 Products](#))

Background: Probable phospholipid-transporting ATPase IM (EC 7.6.2.1) (ATPase class I type 8B member 4) (P4-ATPase flippase complex alpha subunit ATP8B4),FUNCTION: Component of a P4-ATPase flippase complex 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 (Probable). {ECO:0000305}.

Molecular Weight: 135.9 kDa

UniProt: [Q8TF62](#)

## 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