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Datasheet for ABIN3114233  
**ATP8B2 Protein (AA 1-1209) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	ATP8B2
Protein Characteristics:	AA 1-1209
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8B2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MTVPKEMPEK WARAQAPPSW SRKKPSWGTE EERRARANDR EYNEKFQYAS NCIKTSKYNI  
LTFLPVNLFE QFQEVANTYF LFLILQLIP QISSLSWFTT IVPLVLVLT I TAVKDATDDY  
FRHKSDNQVN NRQSQVLING ILQQEQWMNV CVGDIKLEN NQFVAADLLL LSSSEPHGLC  
YIETAELDGE TNMKVRQAIP VTSELGDISK LAKFDGEVIC EPPNNKLDKF SGTLYWKENK  
FPLSNQNMLL RGCVLRNTEW CFGLVIFAGP DTKLMQNSGR TKFKRTSIDR LMNTLVLVWIF  
GFLVCMGVIL AIGNAIWEHE VGMRFQVYLP WDEAVDSAFF SGFLSFWSYI IILNTVVPIS  
LYVSVEVIRL GHSYFINWDK KMFCMKRTP AEARTTTLNE ELGQVEYIFS DKTGTLTQNI  
MVFNKCSING HSYGDVFDVL GHKAEGERP EPVDFSFNPL ADKKFLFWDP SLLEAVKIGD  
PHTHEFFRLL SLCHTVMSEE KNEGELYYKA QSPDEGALVT AARNFGFVFR SRTPKTTIVH  
EMGTAITYQL LAILDENNIR KRMSVIVRNP EGKIRLYCKG ADTILLDR LH HSTQELLNTT  
MDHLNEYAGE GLRTLVLAYK DLDEEYEEW AERRLQASLA QDSREDRLAS IYEEVENMMM  
LLGATAIEDK LQQGVPETIA LLTLANIKIW VLTGDKQETA VNIGYSCKML TDDMTEVFIV

TGHTVLEVRE ELRKAREKMM DSSRSVGNF TYQDKLSSSK LTVLEAVAG EYALVINGHS  
LAHALEADME LEFLETACAC KAVICCRVTP LQKAQVVELV KKYKKAFTLA IGDGANDVSM  
IKTAHIGVGI SGQEGIQAVL ASDYSFSQFK FLQRLLLVHG RWSYLRMCKF LCYFFYKNFA  
FTMVHFWFGF FCGFSAQTVY DQYFITLYNI VYTSLPVLAM GVFDQDVPEQ RSMEYPKLYE  
PGQLNLLFNK REFFICIAQG IYTSVLMFFI PYGVFADATR DDGTQLADYQ SFAVTVATSL  
VIVVSVQIGL DTGYWTAINH FFIWGLAVY FAILFAMHSN GLFDMFPNQF RFGNAQNTL  
AQPTVWLTIV LTTVVCIMPV VAFRFLRLNL KPDLSDTVRY TQLVRKKQKA QHRCMRRVGR  
TGSRRSGYAF SHQEGFGELI MSGKNMRLSS LALSSFTTRS SSSWIESLRR KKSASSSPS  
GGADKPLKG

**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 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

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### 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

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### Target:

ATP8B2

### Alternative Name:

ATP8B2 ([ATP8B2 Products](#))

### Background:

Phospholipid-transporting ATPase ID (EC 7.6.2.1) (ATPase class I type 8B member 2) (P4-ATPase flippase complex alpha subunit ATP8B2),FUNCTION: Catalytic component of P4-ATPase flippase complex, which catalyzes the hydrolysis of ATP coupled to the transport of phosphatidylcholine (PC) from the outer to the inner leaflet of the plasma membrane. May contribute to the maintenance of membrane lipid asymmetry. {ECO:0000269|PubMed:25315773}.

### Molecular Weight:

137.4 kDa

### UniProt:

[P98198](#)

## Application Details

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### 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.

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**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)