

Datasheet for ABIN3114233

ATP8B2 Protein (AA 1-1209) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ATP8B2
Protein Characteristics:	AA 1-1209
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8B2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTVPKEMPEK WARAQAPPSW SRKKPSWGTE EERRARANDR EYNEKFQYAS NCIKTSKYNI</p> <p>LTFLPVNLFE QFQEVANTYF LFLILQLIP QISSLSWFTT IVPLVLVLT I TAVKDATDDY</p> <p>FRHKSDNQVN NRQSQVLING ILQEQWMNV CVGDIKLEN NQFVAADLLL LSSSEPHGLC</p> <p>YIETAELDGE TNMKVRQAIP VTSELGDISK LAKFDGEVIC EPPNNKLDKF SGTLYWKENK</p> <p>FPLSNQNMILL RGCVLRNTEW CFGLVIFAGP DTKLMQNNGR TKFKRTSIDR LMNTLVLVWIF</p> <p>GFLVCMGVIL AIGNAIWEHE VGMRFQVYLP WDEAVDSAFF SGFLSFWSYI IILNTVVPIS</p> <p>LYVSVEVIRL GHSYFINWDK KMFCMKKRTP AEARTTTLNE ELGQVEYIFS DKTGTLTQNI</p> <p>MVFNKCSING HSYGDVFDVL GHKAEGERP EPVDFSFNPL ADKKFLFWDP SLLEAVKIGD</p> <p>PHTHEFFRLL SLCHTVMSEE KNEGELYYKA QSPDEGALVT AARNFGFVFR SRTPKTITVH</p> <p>EMGTAITYQL LAILDFFNIR KRMSVIVRNP EGKIRLYCKG ADTILLDR LH HSTQELLNTT</p> <p>MDHLNEYAGE GLRTLVLAYK DLDEEYEEW AERRLQASLA QDSREDRLAS IYEEVENMM</p>

LLGATAIEDK LQQGVPETIA LLTLANIKIW VLTGDKQETA VNIGYSCKML TDDMTEVFIV
TGHTVLEVRE ELRKAREKMM DSSRSVGNF TYQDKLSSSK LTVSLEAVAG EYALVINGHS
LAHALEADME LEFLETACAC KAVICCRVTP LQKAQVVELV KKYKKAVTLA IGDGANDVSM
IKTAHIGVGI SGQEGIQAVL ASDYSFSQFK FLQRLLLVHG RWSYLRMCKF LCYFFYKNFA
FTMVHFWFGF FCGFSAQTVY DQYFITLYNI VYTSLPVLAM GVFDQDVPEQ RSMEYPKLYE
PGQLNLLFNK REFFICIAQG IYTSVLMFFI PYGVFADATR DDGTQLADYQ SFAVTVATSL
VIVVSVQIGL DTGYWTAINH FFIWGSLAVY FAILFAMHSN GLFDMFPNQF RFVGNQANTL
AQPTVWLTIV LTTVCIMPV VAFRFLRLNL KPDLSDTVRY TQLVRKKQKA QHRCMRRVGR
TGSRRSGYAF SHQEGFGELI MSGKNMRLSS LALSSFTTRS SSSWIESLRR KKSDSASSPS
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.

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:	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

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.
Comment:	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

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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