

Datasheet for ABIN3130930

ATP2C2 Protein (AA 1-944) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	ATP2C2
Protein Characteristics:	AA 1-944
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2C2 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGRRLKFLQK LAFLGQNHRY KALERDEVET LIDEQCELKA IEREKTVAAL PPGEACKCSR EELARAFHVD LDSGLSEFAV AQRRLVHGWN EFVTDNAEPV WKKYLDQFRN PLILLLLGSS VVSVLTKKEYE DAVSIALAVL IVTVGFIQE YRSEKSLEEL TKLVPPECNC LRDGKLRHML ARDLVPGDIV SLSMGDRIPA DIRLTEVTDL LVDESSFTGE VEPCGKTDSP LADGGDLSTL SNVVFMTGLV QCGKGQGVVI GTGEQSQFGE VFKMMRAEET PKTPLQKSMD KLGKQLTIFS FGIIGLLMLV GWWQGKPFLS MFTVGVS LAV AAIPGLPIV VMVTLVLGVL RMAKKRVIVK KLPIVETLGC CNVICSDKTG TLTANEMTAT QLVTSDFGHA EVSGVGYSGE GTVCLLP SKE VIKGF DNVS V GKLVEAGCVA NNAVIRKNAV MGQPTGALV VLAMKMNLGS IKDSYVRKKE IPFSSEQKWM AVRCGPKSED GEDIYFMKGA FEEVIHHCSM YNNGGIPLPL TPQQKSYCQQ EEKKMGS LGL RVLALASGPE LGRLTFLGLV GIIDPPRAGV KEAVQVLSES GVSVKMVTGD ALETALAIGR TIGLCNEK LK AMSGEEVEGT EQGALAARVR QVSVFFRTSP KHKVKIIKAL

QESGAIVAMT GDGVNDSVAL KSADIGIAMG QTGTDVSKEA ANMILVDDDF SAIMSAVEEG
KGIFYNIKNF VRFQLSTIA ALSLITLSTV CNLPSPINAM QILWVNIIMD GPPAQLSGVE
PVDRDALRRP PRSVGDTILN RALILRVLMs AAVIIGGTLF IFWREIPANG TSTPRTTTMA
FTCFVFFDLF NALSCRSQTK LIFEIGFFRN RMFLYSVLGS LLGQLAVIYA PPLQKVFQTE
NLSALDLLLL TGLASSVFIL SELLKLWEKF LSRARPTQML PEAV

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!

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.

Product Details

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:	ATP2C2
Alternative Name:	Atp2c2 (ATP2C2 Products)
Background:	<p>Calcium-transporting ATPase type 2C member 2 (ATPase 2C2) (EC 7.2.2.10) (Ca(2+)/Mn(2+)-ATPase 2C2) (Secretory pathway Ca(2+)-transporting ATPase type 2) (SPCA2),FUNCTION: ATP-driven pump that supplies the Golgi apparatus with Ca(2+) and Mn(2+) ions, both essential cofactors for processing and trafficking of newly synthesized proteins in the secretory pathway. Within a catalytic cycle, acquires Ca(2+) or Mn(2+) ions on the cytoplasmic side of the membrane and delivers them to the luminal side. The transfer of ions across the membrane is coupled to ATP hydrolysis and is associated with a transient phosphorylation that shifts the pump conformation from inward-facing to outward-facing state (By similarity). Induces Ca(2+) influx independently of its ATP-driven pump function. At the basolateral membrane of mammary epithelial cells, interacts with Ca(2+) channel ORAI1 and mediates Ca(2+) entry independently of the Ca(2+) content of endoplasmic reticulum or Golgi stores. May facilitate transepithelial transport of large quantities of Ca(2+) for milk secretion via activation of Ca(2+) influx channels at the plasma membrane and active Ca(2+) transport at the Golgi apparatus (PubMed:23840669) (By similarity). {ECO:0000250 UniProtKB:O75185, ECO:0000269 PubMed:23840669}.</p>
Molecular Weight:	102.5 kDa
UniProt:	A7L9Z8
Pathways:	Ribonucleoside Biosynthetic Process

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.
--------------------	--

Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
----------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months