

Datasheet for ABIN3136066

ATP2C1 Protein (AA 1-918) (Strep Tag)



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Quantity:	250 μg
Target:	ATP2C1
Protein Characteristics:	AA 1-918
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2C1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details				
Brand:	AliCE®			
Sequence:	MKVARFQKIP NVENETMIPV LTSKRASELA VSEVAGLLQA DLQNGLNKSE VSHRRAFHGW			
	NEFDISEDEP LWKKYISQFK NPLIMLLLAS AVISILMRQF DDAVSITVAI VIVVTVAFVQ			
	EYRSEKSLEE LSKLVPPECH CVREGKLEHT LARDLVPGDT VCLSVGDRVP ADLRLFEAVD			
	LSVDESSLTG ETAPCSKVTA PQPAANGDLA SRSNIAFMGT LVRCGKAKGI VIGTGENSEF			
	GEVFKMMQAE EAPKTPLQKS MDLLGKQLSF YSFGIIGIIM LVGWLLGKDI LEMFTISVSL			
	AVAAIPEGLP IVVTVTLALG VMRMVKKRAI VKKLPIVETL GCCNVICSDK TGTLTKNEMT			
	VTHILTSDGL HAEVTGVGYN QFGEVIVDGD VVHGFYNPAV SRIVEAGCVC NDAVIRNNTL			
	MGKPTEGALI ALAMKMGLDG LQQDYIRKAE YPFSSEQKWM AVKCVHRTQQ DRPEICFMKG			
	AYEQVIKYCT TYNSKGQTLA LTQQQRDLYQ QEKARMGSAG LRVLALASGP ELGQLTFLGL			
	VGIIDPPRTG VKEAVTTLIA SGVSIKMITG DSQETAIAIA SRLGLYSKTS QSVSGEEVDT			
	MEVQHLSQIV PKVAVFYRAS PRHKMKIIKS LQKNGAVVAM TGDGVNDAVA LKAADIGVAM			

GQTGTDVCKE AADMILVDDD FQTIMSAIEE GKGIYNNIKN FVRFQLSTSI AALTLISLAT LMNFPNPLNA MQILWINIIM DGPPAQSLGV EPVDKDVIRK PPRNWKDSIL TKNLILKILV SSIIIVCGTL FVFWRELRDN VITPRDTTMT FTCFVFFDMF NALSSRSQTK SVFEIGLCSN KMFCYAVLGS IMGQLLVIYF PPLQKVFQTE SLSILDLLFL LGLTSSVCIV SEIIKKVERS REKVQKNAGS ASSSFLEV

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 posttranslational 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.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression		
D. ''	System (AliCE®).		
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).		
Grade:	custom-made		
Target Details			
Target:	ATP2C1		
Alternative Name:	Atp2c1 (ATP2C1 Products)		
Background:	Calcium-transporting ATPase type 2C member 1 (ATPase 2C1) (EC 7.2.2.10) (ATP-dependent		
	Ca(2+) pump PMR1) (Ca(2+)/Mn(2+)-ATPase 2C1) (Secretory pathway Ca(2+)-transporting		
	ATPase type 1) (SPCA1),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 (By similarity). Within a catalytic cycle, acquires		
	Ca(2+) or Mn(2+) ions on the cytoplasmic side of the membrane and delivers them to the		
	lumenal 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). Plays a primary role in the maintenance of Ca(2+)		
	homeostasis in the trans-Golgi compartment with a functional impact on Golgi and post-Golgi		
	protein sorting as well as a structural impact on cisternae morphology. Responsible for loading		
	the Golgi stores with Ca(2+) ions in keratinocytes, contributing to keratinocyte differentiation		
	and epidermis integrity (By similarity). Participates in Ca(2+) and Mn(2+) ions uptake into the		
	Golgi store of hippocampal neurons and regulates protein trafficking required for neural polarity		
	(PubMed:19793975). May also play a role in the maintenance of Ca(2+) and Mn(2+)		
	homeostasis and signaling in the cytosol while preventing cytotoxicity (By similarity).		
	{ECO:0000250 UniProtKB:P98194, ECO:0000269 PubMed:19793975}.		
Molecular Weight:	100.3 kDa		
UniProt:	Q80XR2		
Pathways:	Transition Metal Ion Homeostasis, Ribonucleoside Biosynthetic Process		
Application Details			

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	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
	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!
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