

Datasheet for ABIN3110301

ATP10A Protein (AA 1-1499) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ATP10A
Protein Characteristics:	AA 1-1499
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP10A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MEREPAGTEE PGPPGRRRRR EGRTRTVRSN LLPPPGAEDP AAGAAKGERR RRRGCAQHLLA DNRLKTTKYT LLSFLPKNLF EQFHRPANVY FVFIALLNfV PAVNAFQpGL ALAPVLFILA ITAFrdLWED YSRHRSDHKI NHLGCLVFSR EEKkYVNRfW KEIHVGDFVR LRCNEIFPAD ILLSSSDPD GLCHIETANL DGETNLKRRQ VVRGFSELVS EFNPLTFTSV IECEKPNNDL SRFRGCIHD NGKKAGLYKE NLLLRGCTLR NTDVVGIVI YAGHETKALL NNSGPRYKRS KLERQMNCdV LWCVLLLVCm SLFSAVGhGL WIWRYQEKKS LFYVPKSDGS SLSPVTAaVY SFLTMiIVLQ VLIPISLYVS IEIVKACQVY FINQDMQLYD EETDSQLQCR ALNITEDLGQ IQYIFSDKTG TLTENKMVFR RCTVSGVEYS HDANAQRLAR YQeADSEEEE VVPRGGSVSQ RGSIGSHQSV RVVHRTQSTK SHRRtGSRAE AKRASMLSKH TAFSSPMekD ITPDPKLEK VSECDKSLAV ARHQEHLLAH LSPeLSDVFD FFIALtICNT VVVTSPDQPR TKVRVRfELK SPVKtIEDFL RRFTPSCLTS GCSSIGSLAA NKSSHKLgSS FPSTPSSDGM LLRLEERLGQ PTSAIASNGY</p>

SSQADNWASE LAQEQESERE LRYEAESPDE AALVYAARAY NCVLVERLHD QVSVELPHLG
RLTFELLHTL GFDSVRKRMS VVIRHPLTDE INVYTKGADS VVMDLLQPCS SVDARGRHQK
KIRSKTQNYL NVYAAEGLRT LCIAKRVLSK EEYACWLQSH LEAESSLENS EELLFQSAIR
LETNLHLLGA TGIEDRLQDG VPETISKLRQ AGLQIWVLTG DKQETAVNIA YACKLLDHDE
EVITLNATSQ EACAALLDQC LCYVQSRGLQ RAPEKTKGKV SMRFSSLCPP STSTASGRRP
SLVIDGRSLA YALEKNLEDK FLFLAKQCRS VLCCRSTPLQ KSMVVKLVRSL KLKAMTLAIG
DGANDVSMIQ VADVGVGISG QEGMQAVMAS DFAVPKFRYL ERLILHGHWS CYSRLANMVL
YFFYKNTMFV GLLFWFQFFC GFSASTMIDQ WYLIFFNLLF SSLPPLVTGV LDRDVPANVL
LTNPQLYKSG QNMEEYRPRF FWFNMADAAP QSLVCFSIPY LAYYDSNVDL FTWGTPIVTI
ALLTFLHLHG IETKTWTWLN WITCGFSVLL FFTVALIYNA SCATCYPPSN PYWTMQALLG
DPVFYLTCLM TPVAALLPRL FFRSLQGRVF PTQLQLARQL TRKSPRRCSA PKETFAQGRL
PKDSGTEHSS GRTVKTSVPL SQPSWHTQQP VCSLEASGEP STVDMSPVPR EHTLLEGLSA
PAPMSSAPGE AVLRSPGGCP EESKVRAAST GRVTPLSSLF SLPTFSLLNW ISSWSLVSRLL
GSVLQFSRTE QLADGQAGRG LPVQPHSGRS GLQGPDRHLL IGASSRRSQ

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

Product Details

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 System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	ATP10A
Alternative Name:	ATP10A (ATP10A Products)
Background:	<p>Phospholipid-transporting ATPase VA (EC 7.6.2.1) (ATPase class V type 10A) (Aminophospholipid translocase VA) (P4-ATPase flippase complex alpha subunit ATP10A),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 (PubMed:25947375, PubMed:29599178, PubMed:30530492). Initiates inward plasma membrane bending and recruitment of Bin/amphiphysin/Rvs (BAR) domain-containing proteins involved in membrane tubulation and cell trafficking (PubMed:29599178). Facilitates ITGB1/beta1 integrin endocytosis, delaying cell adhesion and cell spreading on extracellular matrix (PubMed:29599178, PubMed:25947375). Has low flippase activity toward glucosylceramide (GlcCer) (PubMed:30530492). {ECO:0000269 PubMed:25947375, ECO:0000269 PubMed:29599178, ECO:0000269 PubMed:30530492}.</p>
Molecular Weight:	167.7 kDa
UniProt:	O60312

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 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