

Datasheet for ABIN3136565

## ATP10D Protein (AA 1-1416) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ATP10D
Protein Characteristics:	AA 1-1416
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP10D protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p> MTELLQWARH HWRRLSHGRA QGEDERPYN Y ASLLACGGKS SRTPRPAGKH RRVIPHLQCF  KDEYERFSGT YVNNRIRTTK YTLNLFVPRN LFEQFHRAAN LYFLFLVVLN WVPLVEAFQK  EITMLPLVVV LTIIAKDGL EDYRKYKIDK QINNLITKVY SRKEKKYIDC CWKNVTVGDF IRLSCNEIIP  ADMVLLFSTD PDGICHIETS GLDGESNLKQ RQVVRGYTEQ DSEVDPEKFS SRIECESPNN  DLSRFRGFLE HANKERVGLS KENLLLRGCT IRNTEAVVGI VVYAGHETKA MLNNSGPRYK  RSKLERRANT DVLWCVLLLI VMCLTGALGH GIWLSRYENM LFFNIPEPDG RVISPVLTGF  YVFWTMIILL QVLIPISLYV SIEIVKLGQI YFIQSDVDFY NEKMDSTIQC RALNITEDLG QIQYLFSDKT  GTLTENKMFV RRCSVAGFDY CHEENAKRLE SYQEAVSEEE ECTDTLGGSL SNMARPRAQG  CRTVPSGPLG KPSAQLSGST SAVGNEGESG EVPHSRQAAF SSPMETDVVP DTRLLDKFSQ  LTPQLLTGLD GTAQSSPLET LYIMDFFIAL AICNTVVVSA PNQPRQKIGL SSLGGMPIKS  LEEIKNIFQK LSVRRSSSPS LASGKDSSSG TPCAFVSRIS FFSRPKLSPP MEDESSQMDE </p>

IPQASNSACC TETEAQNRAV GLSVSSAEAL SGPPPSASNL CYEAESPDEA ALVYAARAYR  
CTLQSRTPEQ VMVDFAALGS LTFQLLHILP FDSVRKRMSV VVRHPLSKQV VVYTKGADSV  
IMELLSVAAS DGTNPEQQMI IRERTQRHLD EYAKRGLRTL CVAKKVMSDT EYAEWLRNHF  
LAETSIDNRE ELLVESAMRL ENKLTLLGAT GIEDRLQEGV PESIEALHQA GIKIWMLTGD  
KQETAVNIAY ACKLLEPDDK LFILNTQSQD ACGMLMSAIL EELQKRAQVS PELASSRKNF  
PQPDAQGGG RAGLVITGKT LEFALQESLQ RQFLELTAWC QAVICCRATP LQKSEVVKLV  
RNHHHVLTLP IGDGANDVSM IQVADIGIV SGQEGMQAVM ASDFAISQFR HLSKLLLVHG  
HWCYTRLSNM ILYFFYKNVA YVNLLFWYQF FCGFSGTSMT DYWVLIFFNL LFTSVPIIY  
GVLEKDVS AE TLLQLPELYR SGQRSEEYLP LTFWITLLDA FYQSLVCFV PYFTYQGS DI  
DIFTFGNPLN TAALFIILLH LVIESKSLTW IHMLVTVGS I LSYFFFALAF GALCVTCNPP  
SNPYGIMRKH MLDPVFYLV C VLTTFVALLP RFLYRVLQGS VFPSVLRAK YFDRLPPEER  
AEALKRWRT AKVNHVASKH ASQSAAMSGR PTPGSSAVLA MKSATVSTVE QSTRETALDR  
GCSEPGASKM TGSSAS

**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 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

## Product Details

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:	ATP10D
Alternative Name:	Atp10d ( <a href="#">ATP10D Products</a> )
Background:	Phospholipid-transporting ATPase VD (EC 7.6.2.1) (ATPase class V type 10D) (P4-ATPase flippase complex alpha subunit ATP10D),FUNCTION: Catalytic component of a P4-ATPase flippase complex, which catalyzes the hydrolysis of ATP coupled to the transport of glucosylceramide (GlcCer) from the outer to the inner leaflet of the plasma membrane. {ECO:0000250 UniProtKB:Q9P241}.
Molecular Weight:	158.3 kDa
UniProt:	<a href="#">Q8K2X1</a>

## 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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months