Datasheet for ABIN3131770

ATP10A Protein (AA 1-1508) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ATP10A
Protein Characteristics:	AA 1-1508
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP10A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MERELPAAEE SASSGWRRPR RRRWEGRTRT VRSNLLPPLG TEDSTIGAPK GERLLMRGCI QHLADNRLKT TKYTLLSFLP KNLFEQFHRL ANVYFVFIAL LNFVPAVNAF QPGLALAPVL FILAVTAIKD LWEDYSRHRS DHEINHLGCL VFSREEKKYV NRYWKEIRVG DFVRLCCNEI IPADILLLSS SDPDGLCHIE TANLDGETNL KRRQVVRGFS ELVSEFNPLT FTSVIECEKP NNDLSRFRGY IMHSNGEKAG LHKENLLLRG CTIRNTEAVA GIVIYAGHET KALLNNSGPR YKRSQLERQM NCDVLWCVLL LVCISLFSAV GHGLWVRRYQ EKKALFDVPE SDGSSLSPAT AAVYSFFTMI IVLQVLIPIS LYVSIEIVKV CQVYFINQDI ELYDEETDSQ LQCRALNITE DLGQIKYIFS DKTGTLTENK MVFRRCTVSG IEYSHDANAQ RLARYQEADS EEEEVVSKVG TISHRGSTGS HQSIWMTHKT QSIKSHRRTG SRAEAKRASM LSKHTAFSSP MEKDITPDPK LLEKVSECDR FLAIARHQEH PLAHLSPELS DVFDFFIALT ICNTVVVTSP DQPRQKVRVR FELKSPVKTI EDFLRRFTPS RLASGCSSIG NLSTSKSSHK SGSAFLPSLS QDSMLLGLEE KLGQTAPSIA SNGYASQAGQ EESWASECTT DQKCPGEQRE QQEGELRYEA ESPDEAALVY AARAYNCALV

DRLHDQVSVE LPHLGRLTFE LLHTLGFDSI RKRMSVVIRH PLTDEINVYT KGADSVVMDL LLPCSSDDAR GRHQKKIRSK TQNYLNLYAV EGLRTLCIAK RVLSKEEYAC WLQSHIEAEA SVESREELLF QSAVRLETNL HLLGATGIED RLQEGVPETI AKLRQAGLQI WVLTGDKQET AINIAYACKL LDHGEEVITL NADSQEACAA LLDQCLSYVQ SRNPRSTLQN SESNLSVGFS FNPVSTSTDA SPSPSLVIDG RSLAYALEKS LEDKFLFLAK QCRSVLCCRS TPLQKSMVVK LVRSKLKAMT LAIGDGANDV SMIQVADVGV GISGQEGMQA VMASDFAVPR FRYLERLLIV HGHWCYSRLA NMVLYFFYKN TMFVGLLFWF QFYCGFSASA MIDQWYLIFF NLLFSSLPQL VTGVLDKDVP ADMLLREPQL YKSGQNMEEY RPRAFWLNMV DAAFQSLVCF FIPYLAYYDS DVDVFTWGTP VTAIALFTFL LHLGIETKTW TWLNWLACGF STFLFFSVAL IYNTSCATCY PPSNPYWTMQ TLLGDPLFYL TCLIAPIAAL LPRLFFKALQ GSLFPTQLQL GRQLAKKPLN KFSDPKETFA QGQPPGHSET ELSERKTMGP FETLPRDCAS QASQFTQQLT CSPEASGEPS AVDTNMPLRE NTLLEGLGSQ ASGSSMPRGA ISEVCPGDSK RQSTSASQTA RLSSLFHLPS FGSLNWISSL SLASGLGSVL QLSGSSLQMD KQDGEFLSNP PQPEQDLHSF QGQVTGYL

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer. • We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	ATP10A
Alternative Name:	Atp10a (ATP10A Products)
Background:	Phospholipid-transporting ATPase VA (EC 7.6.2.1) (ATPase class V type 10A) (P-locus fat-associated ATPase) (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. Initiates inward plasma membrane bending and recruitment of Bin/amphiphysin/Rvs (BAR) domain-containing proteins involved in membrane tubulation and cell trafficking. Facilitates ITGB1/beta1 integrin endocytosis, delaying cell adhesion and cell spreading on extracellular matrix. Has low flippase activity toward glucosylceramide (GlcCer). {ECO:0000250|UniProtKB:O60312}.

Target Details

Molecular Weight:	168.8 kDa
UniProt:	O54827

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)