Datasheet for ABIN3137038

ATP13A2 Protein (AA 1-1169) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ATP13A2
Protein Characteristics:	AA 1-1169
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP13A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSADSSLLMG STPPSYGTLT TGTSIDPLSS SASSVRLSGY CGSPWRAIGY HAAVWMLAGI PWLLFRWKPL WGVRLRLKPC SLAHAETLVI EIKDKEGSSR QLFTVQVQTE AVVQGSLELP PQAQAEDGRS QAAVGVTPEG TWQDTSELHR QEEAKQVLRY YVLQGQRYVW METQQAFCQV SLLDHGRTCD DVHCSSSGLS LQDQATRKTI YGPNVISIPV KSYLQLLADE ALNPYYGFQA FSIALWLADH YYWYALCIFL ISAISICLAL YKTRKQSLTL RDMVKLSVRV QVCRPGGEEE WVDSSELVPG DCLVLPQEGG VMPCDAALVA GECVVNESSL TGESTPVLKT ALPEGPKPYC PETHRRHTLF CGTLILQARA YVGPRVLAVV TRTGFCTAKG GLVSSILHPR PISFKFYKHS MKFVAALSVL ALLGTVYSII ILYRNRVPVR EIVIRALDLV TVVVPPALPA AMTVCTLYAQ SRLRTQGIFC IHPLRINLGG KLRLVCFDKT GTLTEDGLDV MGVVPLKGQV LLPLVPEPCH LPLGPLLRAL ATCHALSQLH DTPVGDPMDL KMVESTGWVL EEGPAAGSAP GSQVLVVMRP PPGGPRQQEE PPVPVSVLCR FPFSSALQRM DVVVTWPGAT QPEAYVKGSP ELVASLCSPE

TVPSDFSQVL QSYTAAGYRV VALAGKPLPI APSLAAAQQL TRDTVERELS LLGLLVMRNL LKPQTAPVIQ TLRKTGIRTV MVTGDNLQTA VTVARACGMV GAQEHLAVIH ATHPEQGQPA ALEFLPTESS AVMNGAKATG YPTVPEPQSC HLALSGSTFA VLRKHFPKLL PKVLVQATVF ARMAPEQKTE LVCELQRLQY CVGMCGDGAN DCGALKAADV GISLSQAEAS VVSPFTSSMA SIECVPTVIR EGRCSLDTSF SVFKYMALYS LTQFISVLIL YTINTNLGDL QFLAIDLVIT TTVAVLMSRT GPALTLVRAR PPGALLSVPV LGSLLLQVAL VAGIQLGGYF LVIAQPWFVP LNRTVPAPDN LPNYENTVVF SLSGFQYLIL AAAVSKGAPF RQPLYTNVPF LVALALLGSV LVGLILVPGL LQGPLGLRNI VDSSFKLLLL GLVAFNFVGA FMLESVLDQC LPACLRWLRP KRASKKQFKR LQQELAEHPW PTLPVGSVR

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!

Product Details

	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:	ATP13A2
Alternative Name:	Atp13a2 (ATP13A2 Products)
Background:	Polyamine-transporting ATPase 13A2 (EC 7.6.2.-),FUNCTION: ATPase which acts as a lysosomal polyamine exporter with high affinity for spermine (By similarity). Also stimulates cellular uptake of polyamines and protects against polyamine toxicity (By similarity). Plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity (By similarity). Contributes to cellular zinc homeostasis (By similarity). Confers cellular protection against Mn(2+) and Zn(2+) toxicity and mitochondrial stress (By similarity). Required for proper lysosomal and mitochondrial maintenance (By similarity). Regulates the autophagy-lysosome pathway through the control of SYT11 expression at both transcriptional and post-translational levels (PubMed:27278822). Facilitates recruitment of deacetylase HDAC6 to lysosomes to deacetylate CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (PubMed:30538141). Promotes secretion of exosomes as well as secretion of SCNA via exosomes (By similarity). Plays a role in lipid homeostasis (By similarity). {ECO:0000250|UniProtKB:Q9NQ11, ECO:0000269|PubMed:27278822, ECO:0000269|PubMed:30538141}.
Molecular Weight:	126.4 kDa
UniProt:	Q9CTG6
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.
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