

Datasheet for ABIN3118173

ATP13A3 Protein (AA 1-1226) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ATP13A3
Protein Characteristics:	AA 1-1226
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP13A3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MDREERKTIN QGQEDEMEIIY GYNLSRWKLA IVSLGVICSG GFLLLLLYWM PEWRVKATCV</p> <p>RAAIKDCEVV LLRTTDEFKM WFC AKIRVLS LETYPVSSPK SMSNKL SN GH AVCLIENPTE</p> <p>ENRHRISKYS QTESQQIRYF THHSVKYFWN DTIHNDFDLK GLDEGVSC TS IYEKHSAGLT</p> <p>KGMHAYRKLL YGVNEIAVKV PSVFKLLIKE VLNPFYIFQL FSVILWSTDE YYYALAI VV</p> <p>MSIVSIVSSL YSIRKQYVML HDMVATHSTV RVSVC RVN EE IEEIFSTD LV PGDVMVIPLN</p> <p>GTIMPCDAVL INGTCIVNES MLTGESVPVT KTNLPNPSVD VKGIGDELYN PETHKRHTLF</p> <p>CGTTVIQTRF YTGELVKAIV VRTGFSTSKG QLVR SILY PK PTDFKLYRDA YLFLLC LVAV AGIGFIYTI I</p> <p>NSILNEVQVG VIIIESLDII TITVPPALPA AMTAGIVY AQ RRLKKIGIFC ISPQRINICG QLNLCVCFDKT</p> <p>GTLTEDGLDL WGIQRVENAR FLSPEENV CN EMLVKSQFVA CMATCHSLTK IEGVLSGDPL</p> <p>DLKMFEAIGW ILEEATEEET ALHNRIMPTV VRPPKQLLPE STPAGNQEME LFELPATYEI</p> <p>GIVRQFPFSS ALQRMSVVAR VLGDRKMDAY MKGAPEA IAG LCKPETVPVD FQNVLEDFTK</p>

QGFRVIALAH RKLESKLTWH KVQNISRDAI ENNMDFMGLI IMQNKLKQET PAVLEDLHKA
NIRTVMTGD SMLTAVSVAR DCGMILPQDK VIIAEALPPK DGKVAKINWH YADSLTQCSH
PSAIDPEAIP VKLVHDSLED LQMTRYHFAM NGKSFSVILE HFQDLVPKLM LHGTVFARMA
PDQKTQLIEA LQNVDYFVGM CGDGANDCGA LKRAHGGISL SELEASVASP FTSKTPSISC
VPNLIREGRA ALITSFCVFK FMALYSIIQY FSVTLTLYSIL SNLGDFQFLF IDLAIIILVVV FTMSLNPAWK
ELVAQRPPSG LISGALLFSV LSQIIICIGF QSLGFFWVKQ QPWYEVWHPK SDACNTTGSG
FWNSSHVDNE TELDEHNIQN YENTTVFFIS SFQYLIVAIA FSKGKPRQP CYKNYFFVFS
VIFLYIFILF IMLYPVASVD QVLQIVCVPY QWRVTMLIIV LVNAFVSITV EESVDRWGKC
CLPWALGCRK KTPKAKYMYL AQELLVDPEW PPKPQTTEA KALVKENGSC QIITIT

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: ATP13A3

Alternative Name: ATP13A3 ([ATP13A3 Products](#))

Background: Polyamine-transporting ATPase 13A3 (ATPase family homolog up-regulated in senescence cells 1) (Putrescine transporting ATPase) (EC 7.6.2.16),FUNCTION: ATP-driven pump involved in endocytosis-dependent polyamine transport. Uses ATP as an energy source to transfer polyamine precursor putrescine from the endosomal compartment to the cytosol. {ECO:0000269|PubMed:27429841, ECO:0000269|PubMed:33310703}.

Molecular Weight: 138.0 kDa

UniProt: [Q9H7F0](#)

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

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.

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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