Datasheet for ABIN3132560

ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1B (ABCB1B) (AA 1-1276) protein (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1B (ABCB1B)
Protein Characteristics:	AA 1-1276
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEFEENLKGR ADKNFSKMGK KSKKEKKEKK PAVGVFGMFR YADWLDKLCM ILGTLAAIIH GTLLPLLMLV FGNMTDSFTK AEASILPSIT NQSGPNSTLI ISNSSLEEEM AIYAYYYTGI GAGVLIVAYI QVSLWCLAAG RQIHKIRQKF FHAIMNQEIG WFDVHDVGEL NTRLTDDVSK INDGIGDKIG MFFQSITTFL AGFIIGFISG WKLTLVILAV SPLIGLSSAL WAKVLTSFTN KELQAYAKAG AVAEEVLAAI RTVIAFGGQQ KELERYNKNL EEAKNVGIKK AITASISIGI AYLLVYASYA LAFWYGTSLV LSNEYSIGEV LTVFFSILLG TFSIGHLAPN IEAFANARGA AFEIFKIIDN EPSIDSFSTK GYKPDSIMGN LEFKNVHFNY PSRSEVQILK GLNLKVKSGQ TVALVGNSGC GKSTTVQLMQ RLYDPLEGVV SIDGQDIRTI NVRYLREIIG VVSQEPVLFA TTIAENIRYG REDVTMDEIE KAVKEANAYD FIMKLPHQFD TLVGERGAQL SGGQKQRIAI ARALVRNPKI LLLDEATSAL DTESEAVVQA ALDKAREGRT TIVIAHRLST VRNADVIAGF DGGVIVEQGN HDELMREKGI YFKLVMTQTR GNEIEPGNNA YGSQSDTDAS ELTSEESKSP

LIRRSIYRSV HRKQDQERRL SMKEAVDEDV PLVSFWRILN LNLSEWPYLL VGVLCAVING CIQPVFAIVF SRIVGVFSRD DDHETKRQNC NLFSLFFLVM GLISFVTYFF QGFTFGKAGE ILTKRVRYMV FKSMLRQDIS WFDDHKNSTG SLTTRLASDA SSVKGAMGAR LAVVTQNVAN LGTGVILSLV YGWQLTLLLV VIIPLIVLGG IIEMKLLSGQ ALKDKKQLEI SGKIATEAIE NFRTIVSLTR EQKFETMYAQ SLQVPYRNAM KKAHVFGITF SFTQAMMYFS YAACFRFGAY LVAQQLMTFE NVMLVFSAVV FGAMAAGNTS SFAPDYAKAK VSASHIIRII EKTPEIDSYS TEGLKPTLLE GNVKFNGVQF NYPTRPNIPV LQGLSLEVKK GQTLALVGSS GCGKSTVVQL LERFYDPMAG SVFLDGKEIK QLNVQWLRAH LGIVSQEPIL FDCSIAENIA YGDNSRAVSH EEIVRAAKEA NIHQFIDSLP DKYNTRVGDK GTQLSGGQKQ RIAIARALVR QPHILLLDEA TSALDTESEK VVQEALDKAR EGRTCIVIAH RLSTIQNADL IVVIENGKVK EHGTHQQLLA QKGIYFSMVQ AGAKRS

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:	ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1B (ABCB1B)
Alternative Name:	Abcb1b (ABCB1B Products)
Background:	ATP-dependent translocase ABCB1 (ATP-binding cassette sub-family B member 1B) (Multidrug resistance protein 1B) (EC 7.6.2.2) (P-glycoprotein 1) (Phospholipid transporter ABCB1) (EC 7.6.2.1) (CD antigen CD243),FUNCTION: Translocates drugs and phospholipids across the membrane. Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D-glucosylceramides and sphingomyelins. Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells. {ECO:0000250|UniProtKB:P08183}.
Molecular Weight:	141.0 kDa
UniProt:	P06795

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

Application Details

	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