

Datasheet for ABIN3117125

ABCC2 Protein (AA 1-1545) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ABCC2
Protein Characteristics:	AA 1-1545
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MLEKFCNSTF WNSSF LDSPE ADLPLCFEQT VLVWIPLGYL WLLAPWQLLH VYKSRTKRSS TTKLYLAKQV FVGFLILAA IELALVLTED SGQATVPAVR YTNPSLYLGT WLLVLLIQYS RQWCVQKNSW FLSLFWLSI LCGTFQFQTL IRTLLQGDNS NLAYSCLFFI SYGFQILILI FSAFSENNES SNNPSSIASF LSSITYSWYD SIILKGYKRP LTLEDVWEVD EEMKTKTLVS KFETHMKREL QKARRALQRR QEKSSQQNSG ARLPGLNKNQ SQSQDALVLE DVEKKKKKSG TKKDVPKSWL MKALFKTFYM VLLKSFLKL VNDIFTFVSP QLLKLLISFA SDRDTYLVIG YLCAILLFTA ALIQSFCLQC YFQLCFKLGK VVRTAIMASV YKKALTLSNL ARKEYTVGET VNLMSVDAQK LMDVTNFMHM LWSSVLQIVL SIFFLWRELG PSVLAVGVGM VLVIPINAIL STKSKIQVK NMKNKDKRLK IMNEILSGIK ILKYFAWEPS FRDQVQNLRK KELKNLLAFS QLQCVVIFVF QLTPVLVSVV TFSVYVLVDS NNILDAQKAF TSITLFNILR FPLSMLPMMI SSMLQASVST ERLEKYLGGD DLDTSAIRHD CNFDKAMQFS EASFTWEHDS EATVRDVNLD IMAGQLVAVI GPVSGSKSSL ISAMLGEMEN VHGHITIKGT TAYVPQQSWI QNGTIKDNIL
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FGTEFNEKRY QQVLEACALL PDLEMLPGGD LAEIGEKGIN LSGGQKQRIS LARATYQNLD
IYLLDDPLSA VDAHVGKHIF NKVLGPNGLL KGKTRLLVTH SMHFLPQVDE IVVLGNGTIV
EKGSYSALLA KKGEFAKNLK TFLRHTGPEE EATVHDGSEE EDDDYGLISS VEEIPEDAAS
ITMRRENSFR RTLSRSSRSN GRHLKSLRNS LKTRNVNSLK EDEELVKGQK LIKKEFIETG
KVKFSIYLEY LQAIGLFSIF FIILAFVMNS VAFIGSNLWL SAWTSDSKIF NSTDYPASQR
DMRVGVY GAL GLAQQIFVFI AHFWSAFGFV HASNILHKQL LNNILRAPMR FFDTTPTGRI
VNRFAGDIST VDDTLPQSLR SWITCFLGII STLVMICMAT PVFTIIVIPL GIIVSVQMF
YVSTRQLRR LDSVTRSPIY SHFSETVSGL PVIRAFEHQQ RFLKHNEVRI DTNQKCVFSW
ITSNRWLAI R LELVGNLTVF FSALMMVIYR DTLSGDTVGF VLSNALNITQ TLNWLVRMTS
EIETNIVAVE RITEYTKVEN EAPWVTDKRP PPDWPSKGKI QFNQYQVRYR PELDLVLRGI
TCDIGSMEKI GVVGRGTGAGK SSLTNCLFRI LEAAGGQIII DGVDIASIGL HDLREKLTII PQDPILFSGS
LRMNLDPFNN YSDEEIWKAL ELAHLKSFVA SLQLGLSHEV TEAGGNLSIG QRQLLCLGRA
LLRKSILVL DEATAVDLE TDNLIQTTIQ NEFAHCTVIT IAHRLHTIMD SDKVMVLDNG
KIIECGSPEE LLQIPGPFYF MAKEAGIENV NSTKF

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.

Product Details

- 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!

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)
Grade:	Crystallography grade

Target Details

Target:	ABCC2
Alternative Name:	ABCC2 (ABCC2 Products)
Background:	ATP-binding cassette sub-family C member 2 (EC 7.6.2.-) (EC 7.6.2.2) (EC 7.6.2.3) (Canalicular multidrug resistance protein) (Canalicular multispecific organic anion transporter 1) (Multidrug resistance-associated protein 2),FUNCTION: ATP-dependent transporter of the ATP-binding cassette (ABC) family that binds and hydrolyzes ATP to enable active transport of various substrates including many drugs, toxicants and endogenous compound across cell membranes. Transports a wide variety of conjugated organic anions such as sulfate-, glucuronide- and glutathione (GSH)-conjugates of endo- and xenobiotics substrates

Target Details

(PubMed:10220572, PubMed:10421658, PubMed:11500505, PubMed:16332456). Mediates hepatobiliary excretion of mono- and bis-glucuronidated bilirubin molecules and therefore play an important role in bilirubin detoxification (PubMed:10421658). Mediates also hepatobiliary excretion of others glucuronide conjugates such as 17beta-estradiol 17-glucosiduronic acid and leukotriene C4 (PubMed:11500505). Transports sulfated bile salt such as tauroolithocholate sulfate (PubMed:16332456). Transports various anticancer drugs, such as anthracycline, vinca alkaloid and methotrexate and HIV-drugs such as protease inhibitors (PubMed:10220572, PubMed:11500505, PubMed:12441801). Confers resistance to several anti-cancer drugs including cisplatin, doxorubicin, epirubicin, methotrexate, etoposide and vincristine (PubMed:10220572, PubMed:11500505). {ECO:0000269|PubMed:10220572, ECO:0000269|PubMed:10421658, ECO:0000269|PubMed:11500505, ECO:0000269|PubMed:12441801, ECO:0000269|PubMed:16332456}.

Molecular Weight: 174.2 kDa

UniProt: [Q92887](#)

Pathways: [Hormone Transport](#)

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process