

Datasheet for ABIN3117355

ABCC11 Protein (AA 1-1382) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	ABCC11
Protein Characteristics:	AA 1-1382
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC11 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MTRKRTYWVP NSSGGLVNRG IDIGDDMVSG LIYKTYTLQD GPWSQQERNP EAPGRAAVPP WGKYDAALRT MIPFRPKPRF PAPQPLDNAG LFSYLTVSWL TPLMIQSLRS RLDENTIPPL SVHDASDKNV QRLHRLWEEE VSRRGIEKAS VLLVMLRFQR TRLIFDALLG ICFCIASVLG PILIIPKILE YSEEQLGNVV HGVGLCFALF LSECVKSLSF SSSWIINQRT AIRFRAAVSS FAFEKLIQFK SVIHITSGEA ISFFTGDVNY LFEGVCYGPL VLITCASLVI CSISSYFIIG YTAFIAILCY LLVFPLAVFM TRMAVKAQHH TSEVSDQRIR VTSEVLTCIK LIKMYTWEKP FAKIIEDLRR KERKLEKCG LVQSLTSITL FIIPTVATAV WVLHTSLKL KLTASMAFSM LASLNLLRLS VFFVPIAVKG LTNSKSAVMR FKKFFLQESP VFYVQTLQDP SKALVFEEAT LSWQQTCPGI VNGALELERN GHASEGMTRP RDALGPEEEG NSLGPELHKI NLVSKGMMML GVCGNTGSGK SSLLSAILEE MHLLEGSGGV QGSLAYVPQQ AWIVSGNIRE NILMGGAYDK ARYLQVLHCC SLNRDLELLP FGDMTEIGER GLNLSGGQKQ RISLARAVYS DRQIYLLDDP LSAVDAHVGK HIFEECIKKT LRGKTVVLVT HQLQYLEFCG QIILLENGKI CENGTHSELM QKKGKYAQLI QKMHKEATSD
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MLQDTAKIAE KPKVESQALA TSLEESLNGN AVPEHQLTQE EEMEEGSLSW RVYHHYIQAA  
GGYMVSCIIF FFVVLIVFLT IFSFWWLSYW LEQGSGTNSS RESNGTMADL GNIADNPQLS  
FYQLVYGLNA LLLICVGVCS SGIFTKVTRK ASTALHNKLF NKVFRCPMSF FDTIPIGRLL  
NCFAGDLEQL DQLLPFSEQ FLVLSLMVIA VLLIVSVLSP YILLMGAIIM VICFIYYMMF  
KKAIGVFKRL ENYSRSPFHS HILNSLQGLS SIHVYGKTED FISQFKRLTD AQNNYLLFL  
SSTRWMALRL EIMTNLVTLA VALFVAFGIS STPYSFKVMA VNIVLQLASS FQATARIGLE  
TEAQFTAVER ILQYMKMCVS EAPLHMEGTS CPQGWPQHGE IIFQDYHMKY RDNTPTVLHG  
INLTIRGHEV VGIVGRTGSG KSSLGMALFR LVEPMAGRIL IDGVDICSIG LEDLSKLSV  
IPQDPVLLSG TIRFNLDPFDRHTDQQIWDA LERTFLTKAI SKFKPKLHTD WVENGGNFSV  
GERQLLCIAR AVLRNSKIIL IDEATASIDM ETDTLIQRIT REAFQGCTVL VIAHRVTTVL  
NCDHILVMGN GKVVEFDRPE VLRKKPGSLF AALMATATSS LR

**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.**

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### 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 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

Product Details

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:	ABCC11
Alternative Name:	ABCC11 ( <a href="#">ABCC11 Products</a> )
Background:	ATP-binding cassette sub-family C member 11 (EC 7.6.2.2) (EC 7.6.2.3) (Multidrug resistance-associated protein 8),FUNCTION: ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds and xenobiotics from cells. Plays a role in physiological processes involving bile acids, conjugated steroids and cyclic nucleotides, including cAMP and cGMP (PubMed:12764137, PubMed:15537867). Mediates the ATP-dependent efflux of a range of physiological lipophilic anions, including the glutathione S-conjugates leukotriene C4 and dinitrophenyl S-glutathione, steroid sulfates, such as dehydroepiandrosterone 3-sulfate (DHEAS) and estrone 3-sulfate, glucuronides such as estradiol 17-beta-D-glucuronide (E(2)17betaG), the monoanionic bile acids glycocholate and taurocholate, and methotrexate (PubMed:15537867, PubMed:16359813, PubMed:25896536). Plays a role in the transport of earwax components (PubMed:16444273, PubMed:19383836).

## Target Details

Participates in the secretion of odorants and their precursors from the apocrine sweat glands, including the secretion of glutamine conjugates, as well as the Cys-Gly-(S) conjugates of 3-methyl-3-sulfanyl-hexanol (PubMed:19710689). Involved in the cellular extrusion of nucleotide analogs, hence conferring resistance to various drugs, including clinically relevant drugs such as 5-fluorouracil (5-FU) and methotrexate (PubMed:12764137, PubMed:15537867, PubMed:25896536). {ECO:0000269|PubMed:12764137, ECO:0000269|PubMed:15537867, ECO:0000269|PubMed:16359813, ECO:0000269|PubMed:16444273, ECO:0000269|PubMed:19383836, ECO:0000269|PubMed:19710689, ECO:0000269|PubMed:25896536}.

Molecular Weight: 154.3 kDa

UniProt: [Q96J66](#)

## 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.

Handling

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