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Datasheet for ABIN3111167

## ABCC6 Protein (AA 1-1503) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	ABCC6
Protein Characteristics:	AA 1-1503
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

#### Product Details

Sequence: MAAPAEP CAG QGVWNQTEPE PAATSLLSLC FLRTAGVWVP PMYLWVLGPI YLLFIHHHGR  
 GYL RMSPLFK AKMVLGFALI VLCTSSVAVA LWKIQQGTPE APEFLIHPTV WLTTMSFAVF  
 LIHTERKKGV QSSGVLFYW LLCFVLPATN AAQQASGAGF QSDPVRHLST YLCLSLVVAQ  
 FVLSCLADQP PFFPEDPQQS NPCPETGA AF PSKATFWWVS GLVWRGYRRP LRPKDLWVSLG  
 RENSSEELVS RLEKEWMRNR SAARRHNKAI AFKRKGGSGM KAPETEPFLR QEGSQWRPLL  
 KAIWQVFHST FLLGTLSLII SDVFRFTVPK LLSLFLEFIG DPKPPAWKGY LLAVLMFLSA  
 CLQTLFEQQN MYRLKVLQMR LRSAITGLVY RKVLALSSGS RKASAVGDVV NLVSVDVQRL  
 TESVLYLNGL WLPLVWIVVC FVYLWQLLGP SALTIAVFL SLLPLNFFIS KKRNNHHQEEQ  
 MRQKDSRARL TSSILRNSKT IKFHGWEGAF LDRV LGIRGQ ELGALRTSGL LFSVSLVSFQ  
 VSTFLVALVV FAVHTLVAEN AMNAEKAFVT LTVLNILNKA QAFLPFSIHS LVQARVSFDR  
 LVTFLCLEEV DPGVVDSSSS GSAAGKDCIT IHSATFAWSQ ESPPCLHRIN LTV PQGCLLA  
 VVGVPV GAGKS SLLSALLGEL SKVEGFVSIE GAVAYVPQEA WVQNTSVVEN VCFGQELDPP

WLERVLEACA LQPDVDSFPE GIHTSIGEQG MNLSGGQKQR LSLARAVYRK AAVYLLDDPL  
AALDAHVGQH VFNQVIGPGG LLQGTTRILV THALHILPQA DWIIVLANGA IAEMGSYQEL  
LQRKGALMCL LDQARQPGDR GEGETEPGTS TKDPRGTSAG RPELRRERS IKSVPKDRDRT  
TSEAQTEVPL DDPDRAGWPA GKDSIQYGRV KATVHLAYLR AVGTPLCLYA LFLFLCQQVA  
SFCRGYWLSL WADDPVGGQ QTQAALRGGI FGLLGCLQAI GLFASMAAVL LGGARASRL  
FQRLLDVVR SPISFFERTP IGHLLNRFSK ETDVVDVDP DKLRSLMYA FGLLEVSLV  
AVATPLATVA ILPLFLYAG FQSLYVSSC QLRRLESASY SSVCSHMAET FQGSTVRAF  
RTQAPFVAQN NARVDESQRI SFPRLVADRW LAANVELLGN GLVFAAATCA VLSKAHLSAG  
LVGFSVSAAL QVTQTLQWVV RNWTDLENSI VSVERMQDYA WTPKEAPWRL PTCAAQPPWP  
QGGQIEFRDF GLRYRPELPL AVQGVSKIH AGEKVGIVGR TGAGKSSLAS GLLRLQEAAE  
GGIWIDGVPI AHVGLHTLRS RISIIPQDPI LFPGLRMNL DLLQEHSDEA IWAALTVQL  
KALVASLPGQ LQYKCADRGE DLSVGQKQLL CLARALLRKT QILILDEATA AVDPGTELQM  
QAMLGSWFAQ CTVLLIAHRL RSVMDCARVL VMDKGQVAES GSPAQLLAQK GLFYRLAQES GLV

**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

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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Target:	ABCC6
Alternative Name:	ABCC6 ( <a href="#">ABCC6 Products</a> )
Background:	ATP-binding cassette sub-family C member 6 (EC 7.6.2.-) (EC 7.6.2.3) (Anthracycline resistance-associated protein) (Multi-specific organic anion transporter E) (MOAT-E) (Multidrug resistance-associated protein 6),FUNCTION: [Isoform 1]: ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Mediates ATP-dependent transport of glutathione conjugates such as leukotriene-c4 (LTC4) and N-ethylmaleimide S-glutathione (NEM-GS) (in vitro), and an anionic cyclopentapeptide endothelin antagonist, BQ-123 (PubMed:11880368, PubMed:12414644). May contribute to regulate the transport of organic compounds in testes across the blood-

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## Target Details

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testis-barrier (Probable). Does not appear to actively transport drugs outside the cell. Confers low levels of cellular resistance to etoposide, teniposide, anthracyclines and cisplatin (PubMed:12414644). {ECO:0000269|PubMed:11880368, ECO:0000269|PubMed:12414644, ECO:0000305|PubMed:35307651}., FUNCTION: [Isoform 1]: Mediates the release of nucleoside triphosphates, predominantly ATP, into the circulation, where it is rapidly converted into AMP and the mineralization inhibitor inorganic pyrophosphate (PPi) by the ecto-enzyme ectonucleotide pyrophosphatase phosphodiesterase 1 (ENPP1), therefore playing a role in PPi homeostasis. {ECO:0000269|PubMed:24277820, ECO:0000269|PubMed:24969777}., FUNCTION: [Isoform 2]: Inhibits TNF-alpha-mediated apoptosis through blocking one or more caspases. {ECO:0000269|PubMed:23912081}.

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Molecular Weight: 164.9 kDa

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UniProt: [O95255](#)

## Application Details

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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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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!

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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## Handling

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

## Images

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