

Datasheet for ABIN3115425

## ABCC10 Protein (AA 1-1492) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ABCC10
Protein Characteristics:	AA 1-1492
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC10 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MERLLAQLCG SSAAWPLPLW EGDTTGHCFT QLVLSALPHA LLAVLSACYL GTPRSPDYIL</p> <p>PCSPGWRLRL AASFLLSVFP LLDLLPVALP PGAGPGPIGL EVLAGCVAHV AWISHSLALW</p> <p>VLAHSPHGHS RGPLALALVA LLPAPALVLT VLWHCQRGTL LPPLLPGPMA RLCLLILQLA</p> <p>ALLAYALGWA APGGPREPWA QEPLLPEDQE PEVAEDGESW LSRFSYAWLA PLLARGACGE</p> <p>LRQPQDICRL PHRLQPTYLA RVFQAHWQEG ARLWRALYGA FGRCYLALGL LKLVGTMLGF</p> <p>SGPLLLSLLV GFLEEGQEPL SHGLLYALGL AGGAVLGAVL QNQYGYEVYK VTLQARGAVL</p> <p>NILYCKALQL GPSRPPTGEA LNLLGTDSEK LLNFAGSFHE AWGLPLQLAI TLYLLYQQVG</p> <p>VAFVGGLILA LLLVPVNKVI ATRIMASNQE MLQHKDARVK LVTELLSGIR VIKFCGWEEA</p> <p>LGARVEACRA RELGRLRVIK YLDAACVYLW AALPVVISIV IFITYVLMGH QLTATKVFTA</p> <p>LALVRMLILP LNNFPWVING LLEAKVSLDR IQLFLDLPNH NPQAYYSPDP PAEPSTVLEL</p> <p>HGALFSWDPV GTSLETFFISH LEVKKGMLVG IVGKVGCGKS SLLAAIAGEL HRLRGHVAVR</p>

GLSKGFLAT QEPWQFATI RDNILFGKTF DAQLYKEVLE ACALNDDLSI LPAGDQTEVG  
EKGVTLSGGQ RARIALARAV YQEKELYLLD DPLAAVDADV ANHLLHRCIL GMLSYTTRLL  
CTHRTEYLER ADAVLLMEAG RLIRAGPPSE ILPLVQAVPK AWAENGQESD SATAQSVQNP  
EKTKEGLEEE QSTSGRLLQE ESKKEGAVAL HVYQAYWKAV GQGLALAILF SLLLMQATRN  
AADWWLSHWI SQLKAENSSQ EAQPSTSPAS MGLFSPQLLL FSPGNLYIPV FPLPKAAPNG  
SSDIRFYLTV YATIAGVNSL CTLLRAVLFA AGTLQAAATL HRLLHRVLM APVTFFNATP  
TGRILNRFSS DVACADDSLP FILNILLANA AGLLGLLAVL GSGLPWLLLL LPPLSIMYYH  
VQRHYRASSR ELRRLGSLTL SPLYSHLADT LAGLSVLRAT GATYRFEEEN LRLLELNQRC  
QFATSATMQW LDIRLQLMGA AVVSAIAGIA LVQHQQGLAN PGLVGLSLSY ALSLTGLLSG  
LVSSFTQTEA MLVSVERLEE YTCDLQPQEQ GQPLQLGTGW LTQGGVEFQD VVLAYRPGLP  
NALDGVTFVCV QPGEKLGIVG RTGSGKSSLL LVLFRLLLEPS SGRVLLDGVD TSQLELAQLR  
SQLAIIPQEP FLFSGTVREN LDPQGLHKDR ALWQALKQCH LSEVITSMGG LDGELGEGGR  
SLSLGQRQLL CLARALLTDA KILCIDEATA SVDQKTDQLL QQTICKRFAN KTVLTIAHRL  
NTILNSDRV LVLQAGRVVEL DSPATLRNQP HSLFQQLLQS SQQGVPASLG GP

**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 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

## Product Details

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 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:	ABCC10
Alternative Name:	ABCC10 ( <a href="#">ABCC10 Products</a> )
Background:	<p>ATP-binding cassette sub-family C member 10 (EC 7.6.2.2) (EC 7.6.2.3) (Multidrug resistance-associated protein 7),FUNCTION: ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds, and xenobiotics from cells. Lipophilic anion transporter that mediates ATP-dependent transport of glucuronide conjugates such as estradiol-17-beta-o-glucuronide and GSH conjugates such as leukotriene C4 (LTC4) (PubMed:12527806, PubMed:15256465). May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Mediates multidrug resistance (MDR) in cancer cells by preventing the intracellular accumulation of certain antitumor drugs, such as, docetaxel and paclitaxel (PubMed:15256465, PubMed:23087055). Does not transport glycocholic acid, taurocholic acid, MTX, folic acid, cAMP, or cGMP (PubMed:12527806).</p> <p>{ECO:0000269 PubMed:12527806, ECO:0000269 PubMed:15256465, ECO:0000269 PubMed:23087055, ECO:0000305 PubMed:35307651}.</p>
Molecular Weight:	161.6 kDa
UniProt:	<a href="#">Q5T3U5</a>

## 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.  
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