

Datasheet for ABIN3110442

ABCC9 Protein (AA 1-1549) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	ABCC9
Protein Characteristics:	AA 1-1549
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC9 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MSLSFCGNNI SSYNINDGVL QNSCFVDALN LVPHVFLLFI TFPILFIGWG SQSSKVQIHH NTWLHFPNGHN LRWILTFALL FVHVCEIAEG IVSDSRRESR HLHLFMPAVM GFVATTTISV YYHNIETSNF PKLLLALFLY WVMFITKTI KLVKYCQSGI DISNLRFCIT GMMVILNGLL MAVEINVIRV RRYVFFMNPQ KVKPPEDLQD LGVRFLQPFV NLLSKATYWW MNTLIISAHK KPIDLKAIGK LPIAMRAVTN YVCLKDAYEE QKKKVADHPN RTPSIWLAMY RAFGRPILLS STFRYLADLL GFAGPLCISG IVQRVNETQN GTNNTTGISE TLSSKEFLEN AYVLAVLLFL ALILQRTFLQ ASYYVTIETG INLRGALLAM IYNKILRLST SNLSMGEMTL GQINNLAIE TNQLMWFLFL CPNLWAMPVQ IIMGVILLYN LLGSSALVGA AVIVLLAPIQ YFIATKLAEA QKSTLDYSTE RLKKTNEILK GIKLLKLYAW EHIFCKSVEE TRMKELSSLK TFALYTSLSI FMNAAPIAA VLATFVTHAY ASGNNLKPAE AFASLSLFHI LVTPFLLLST VVRFAVKAI SVQKLNEFLS SDEIGDDSWR TGESSLPFES CKKHTGVQPK TINRKQPGRY HLDSEYQSTR RLRPAETEDI AIKVTNGYFS WGSGLATLSN IDIRIPTGQL TMIVGQVCGC KSSLLAILG
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EMQTLEGKVH WSNVNESEPS FEATRSRNRV SVAYAAQKPW LLNATVEENI TFGSPFNKQR
YKAVTDACSL QPDIDLLPFG DQTEIGERGI NLSGGQRQRI CVARALYQNT NIVFLDDPFS
ALDIHLSDDL MQEGILKFLQ DDKRTLVLVT HKLQYLTHAD WIIAMKDGSV LREGTLKDIQ
TKDVELYEHV KTLMNRRQDE LEKDMEADQT TLERKTLRRA MYSREAKAQM EDEDEEEEE
EDEDNMSTV MRLRTKMPWK TCWRYLTSGG FLLILMIFS KLLKHSVIVA IDYWLATWTS
EYSINNTGKA DQTYVAGFS ILCGAGIFLC LVTSLTVEWM GLTAAKNLHH NLLNKIILGP
IRFFDTTPLG LILNRFSADT NIIDQHIPP LESLTRSTLL CLSAIGMISY ATPVFLVALL PLGVAFYFIQ
KYFRVASKDL QELDDSTQLP LLCHFSETAE GLTTIRAFRH ETRFKQRMLE LDTNNIAYL
FLSAANRWLE VRTDYLGACI VLTASIASIS GSSNSGLVGL GLLYALTITN YLNWVVRNLA
DLEVQMGAVK KVNSFLTMES ENYEGTMDPS QVPEHWPQEG EIKIHDLCVR YENNLKPVLK
HVKAYIKPGQ KVGICGRTGS GKSSLSLAFF RMVDIFDGKI VIDGIDISKL PLHTLSRSL IILQDPILFS
GSIRFNLDPE CKCTDDRLWE ALEIAQLKNM VKSLPGGLDA VVTEGGENFS VGQRQLFCLA
RAFVRKSSIL IMDEATASID MATENILQKV VMTAFADRTV VTIAHRVSSI MDAGLVLVFS
EGILVECDTV PNLLAHKNGL FSTLVMTNK

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:	ABCC9
Alternative Name:	ABCC9 (ABCC9 Products)
Background:	ATP-binding cassette sub-family C member 9 (Sulfonylurea receptor 2),FUNCTION: Subunit of ATP-sensitive potassium channels (KATP). Can form cardiac and smooth muscle-type KATP channels with KCNJ11. KCNJ11 forms the channel pore while ABCC9 is required for activation and regulation. {ECO:0000269 PubMed:9831708}.
Molecular Weight:	174.2 kDa
UniProt:	O60706

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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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)



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