

Datasheet for ABIN3137463

ABCC6 Protein (AA 1-1498) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ABCC6
Protein Characteristics:	AA 1-1498
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AlIcE®
Sequence:	<p>MNRGRSMATP GEQCAGLRVW NQTEQEPAAY HLLSLCFVRA ASSWVPPMYL WVLGPYYLLY</p> <p>IHRHGRCYLR MSHLFKTKMV LGLALILLYT FNVAVPLWRI HQGVPQAPEL LIHPTVWLTT</p> <p>MSFATFLIHM ERRKGVRRSSG VLFGYWLLCC ILPGINTVQQ ASAGNFRQEP LHHLATYLCL</p> <p>SLVVAELVLS CLVDQPPFFS EDSQPLNPCP EAEASFPSKA MFWWASGLLW RGYKKLLGPK</p> <p>DLWSLGRENS SEELVSQLER EWRRSCNGLP GHKGHSSVGA PETEAFLQPE RSQRGPLLRA</p> <p>IWRVFRSTFL LGTSLVISD AFRFAVPKLL SLFLEFMGDR NSSAWTGWLL AVLMFAAAACL</p> <p>QTLFEQQHMY RAKVLQMRLR TAITGLVYRK VLVSSGSRK SSAAGDVVNL VSVDIQRLAE</p> <p>SIIYLNGLWL LFLWIFVCFV YLWQLLGPSA LTAVAVFLSL LPLNFFITKK RGFHQEEQMR</p> <p>QKASRARLTS SMLRTVRTIK SHGWEHAFLE RLLHIRGQEL SALKTSTLLF SVSLVSFQVS</p> <p>TFLVALVVFA VHTLVAEDNA MDAEKAFVTL TVLSILNKAQ AFLPFSVHCI VQARVSFDRL</p> <p>AAFLCLEEVD PNGMIASNSR RSSKDRISVH NGTFAWSQES PPCLHGINLT VPQGCLLAVV</p>

GPVGAGKSSL LSALLGELLK VEGSVSIEGS VAYVPQEAHV QNTSVVENVC FRQELDLPLW
QKVLDACALG SDVASFPAGV HTPIGEQQMN LSGGQKQRLS LARAVYKAA IYLLDDPLAA
LDAHVSQQVF KQVIGPSGLL QGTTRILVTH TLHVLPQADR ILVLANGTIA EMGSYQDLLQ
RNGALVGLLD GARQPAGTHD AATSDDLGGF PGGGRPTCRP DRPRPTEAAP VKGRSTSEVQ
MEASLDDPEA TGLTAEEDSV RYGRVKTTIY LSYLRAVGTP LCTYTLFLFL CQQVASFSQG
YWLSLWADDP VVDGRQMHAALRGWVFGLLG CLQAIGLFAS MAAVFLGGAR ASGLLFRSLL
WDVARSPIGF FERTPVGNLL NRFSKETDTV DVDIPDKLRS LLTYAFGLLE VGLAVTMATP
LAIVAILPLM VLYAGFQSLY VATSCQLRRL ESARYSSVCS HMAETFQGSLL VVRAFRAQAS
FTAQHDALMD ENQRVSFPKL VADRWLATNL ELLGNGLVFV AATCAVLSKA HLSAGLVGFS
VSAALQVTQT LQWVVRSWTD LENSMAVER VQDYARIPKE APWRLPTCAA QPLWPCGGQI
EFRDFGLRHR PELPLAVQGV SLKIHAGEKV GIVGRTGAGK SSLAWGLLRL QEAAEGNIWI
DGVPIHVGL HTLRSRITII PQDPVLFPGS LRMNLDLLQE HTDEGIWAAL ETVQLKAFVT
SLPGQLQYEC AGQGDDLSVG QKQLLCLARA LLRKTQILIL DEATASVDPG TEMQMQAAL
RWFTQCTVLL IAHRLRSVMD CARVLVMDG QVAESGSPAQ LLAQKGLFYR LAHESGLA

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 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:	ABCC6
Alternative Name:	Abcc6 (ABCC6 Products)
Background:	<p>ATP-binding cassette sub-family C member 6 (EC 7.6.2.-) (EC 7.6.2.3) (Multidrug resistance-associated protein 6),FUNCTION: 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. May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (By similarity). {ECO:0000250 UniProtKB:O95255}.,</p> <p>FUNCTION: 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:0000250 UniProtKB:O95255}.</p>
Molecular Weight:	164.9 kDa
UniProt:	Q9R1S7

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