Datasheet for ABIN3129622

ABCB6 Protein (AA 1-842) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ABCB6
Protein Characteristics:	AA 1-842
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVTVGNYCET EGPAGPAWTQ NGLSPCFFFT LVPSTLLTLG VLALVLVLPR RRREVPAGPE ELSWAAGPRV APYVLQLFLA TLQMALPLAG LAGRVGTARG VRLPGYLLLA SVLESLASVC GLWLLVVERS QARQSLAMGV WMKFRHSLGL LLLWTVTFAA ENLALVSWNS PQWWWARADL GQQVQFGLWV LRYVTSGGLF ILGLWAPGLR PQSYTLHVHE EDQDVGGNQG RSTDRRSTWR DLGRKLRLLS SYLWPRGSPS LQLIVLICLG LMGLERALNV LVPIFYRDIV NLLTAKAPWS SLAWTVTTYV FLKFLQGGGT GSTGFVSNLR TFLWIRVQQF TSRGVELRLF SHLHELSLRW HLGRRTGEVL RIVDRGTSSV TGLLSYLVFS IIPTLADIII GIIYFSMFFN AWFGLIVFLC MSLYLILTIV VTEWRAKFRR DMNTQENATR ARAVDSLLNF ETVKYYGAEG YEVDRYREAI LKFQGLEWKS TASLVVLNQT QNLVIGLGLL AGSLLCAYFV SEQKLQVGDF VLFGTYITQL YMPLNWFGTY YRMIQTNFID MENMFDLLKE ETEVKDVPGA GPLRFHKGRI EFENVHFSYA DGQETLQDVS FTVMPGQTVA LVGPSGAGKS TILRLLFRFY DISSGCIRID GQDISQVTQI SLRSHIGVVP

	QDTVLFNDTI ANNIRYGRVT AGDSEVEAAA QAAGIHDAIL SFPEGYETQV GERGLKLSGG EKQRVAIART ILKAPDIILL DEATSALDTS NERAIQASLA KVCTNRTTIV IAHRLSTVVN ADQILVIKDG CIIERGRHEA LLSRGGVYAE MWQLQQQGQE TVPEESKPQD TA **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 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

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	ABCB6
Alternative Name:	Abcb6 (ABCB6 Products)
Background:	ATP-binding cassette sub-family B member 6 (ABC-type heme transporter ABCB6) (EC 7.6.2.5),FUNCTION: ATP-dependent transporter that catalyzes the transport of a broad-spectrum of porphyrins from the cytoplasm to the extracellular space through the plasma membrane or into the vesicle lumen (PubMed:27507172). May also function as an ATP-dependent importer of porphyrins from the cytoplasm into the mitochondria, in turn may participate in the de novo heme biosynthesis regulation and in the coordination of heme and iron homeostasis during phenylhydrazine stress (PubMed:22294697, PubMed:17006453). May play a key role in the early steps of melanogenesis producing PMEL amyloid fibrils (By similarity). In vitro, it confers to cells a resistance to toxic metal such as arsenic and cadmium and against chemotherapeutics agent such as 5-fluorouracil, SN-38 and vincristin (By similarity). In addition may play a role in the transition metal homeostasis (By similarity). {ECO:0000250|UniProtKB:O70595, ECO:0000250|UniProtKB:Q9NP58, ECO:0000269|PubMed:17006453, ECO:0000269|PubMed:22294697, ECO:0000269|PubMed:27507172}.
Molecular Weight:	93.8 kDa
UniProt:	Q9DC29
Pathways:	Transition Metal Ion Homeostasis

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

Application Details

	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