Datasheet for ABIN3090504

AGBL2 Protein (AA 1-902) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	AGBL2
Protein Characteristics:	AA 1-902
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGBL2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MFPALETHLK QTIPDPYEDF MYRHLQYYGY FKAQRGSLPN SATHQHVRKN NPQCLLNGSL GEKDDLIPDT LQKEKLLWPI SLSSAVHRQI EAINRDFHSC LGWMQWRGLS SLQPPPPRFK DSPASAFRVA GITDSHMLSL PHLRSRQLLY DELDEVNPRL REPQELFSIL STKRPLQAPR WPIECEVIKE NIHHIEWAPP QPEYFYQPKG NEKVPEIVGE KKGTVVYQLD SVPIEGSYFT SSRVGGKRGI VKELAVTLQG PEDNTLLFES RFESGNLQKA VRVDTYEYEL TLRTDLYTNK HTQWFYFRVQ NTRKDATYRF TIVNLLKPKS LYTVGMKPLL YSQLDANTRN IGWRREGNEI KYYKNNTDDG QQPFYCLTWT IQFPYDQDTC FFAHFYPYTY TDLQCYLLSV ANNPIQSQFC KLQTLCRSLA GNTVYLLTIT NPSQTPQEAA AKKAVVLSAR VHPGESNGSW VMKGFLDFIL SNSPDAQLLR DIFVFKVLPM LNPDGVIVGN YRCSLAGRDL NRHYKTILKE SFPCIWYTRN MIKRLLEERE VLLYCDFHGH SRKNNIFLYG CNNNNRKYWL HERVFPLMLC KNAPDKFSFH SCNFKVQKCK EGTGRVVMWR MGILNSYTME STFGGSTLGN KRDTHFTIED LKSLGYHVCD TLLDFCDPDQ MKFTQCLAEL KELLRQEIHK KFHELGQDVD LEGSWSDISL SDIESSTSGS

DSSLSDGLPV HLANIADELT QKKKMFKKKK KKSLQTRKQR NEQYQKKNLM QKLKLTEDTS EKAGFASTLQ KQPTFFKNSE NSSFLPMKNE NPRLNETNLN RRDKDTPLDP SMATLILPKN KGRMQNKKPG FTVSCSPKRT INSSQEPAPG MKPNWPRSRY PATKRGCAAM AAYPSLHIYT YP

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.
- 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.

Product Details

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:	AGBL2
Alternative Name:	AGBL2 (AGBL2 Products)
Background:	Cytosolic carboxypeptidase 2 (EC 3.4.17.-) (ATP/GTP-binding protein-like 2) (Protein deglutamylase CCP2),FUNCTION: Metallocarboxypeptidase that mediates deglutamylation of tubulin and non-tubulin target proteins. Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of tubulin protein. Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate. Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of non-tubulin proteins such as MYLK. {ECO:0000250|UniProtKB:Q8CDK2}.
Molecular Weight:	104.2 kDa
UniProt:	Q5U5Z8

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.

Application 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!
Restrictions:	For Research Use only

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)

Images

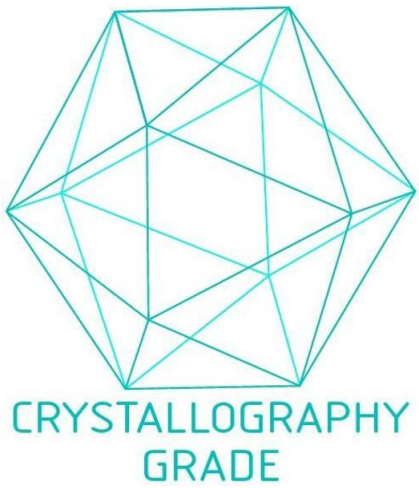

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process