Datasheet for ABIN3134878

AGBL5 Protein (AA 1-886) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	AGBL5
Protein Characteristics:	AA 1-886
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGBL5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MELRCGGLLF SSRFDSGNLA HVEKVETVSS DGEGVGGVAT APASGSAASP DYEFNVWTRP DCAETEYENG NRSWFYFSVR GGTPGKLIKI NIMNMNKQSK LYSQGMAPFV RTLPSRPRWE RIRERPTFEM TETQFVLSFV HRFVEGRGAT TFFAFCYPFS YSDCQDLLSQ LDQRFSENYS THSSPLDSIY YHRELLCYSL DGLRVDLLTI TSCHGLRDDR EPRLEQLFPD LGTPRPFRFT GKRIFFLSSR VHPGETPSSF VFNGFLDFIL RPDDPRAQTL RRLFVFKLIP MLNPDGVVRG HYRTDSRGVN LNRQYLKPDA VLHPAIYGAK AVLLYHHVHS RLNAKSPTNQ QPTLHLPPEA PLSDLEKANN LHNEAHLGQS PDGENPATWP ETEPAEEKTD PVWLMPQPIP ELEEPAPDTI PPKESGVAYY VDLHGHASKR GCFMYGNSFS DESTQVENML YPKLISLNSA HFDFQGCNFS EKNMYARDRR DGQSKEGSGR VAIYKASGII HSYTLECNYN TGRSVNSIPA ACHDNGRASP PPPPAFPSRY TVELFEQVGR AMAIAALDMA ECNPWPRIVL SEHSSLTNLR AWMLRHVRNS RGLTSAGNMG ASKKRGARTP PKSNNSLPVS CSENALSRVR SFSTGTSTGG SSSSQQNSPQ

MKNSPSFPFH GSRTAGLPGL GSSTQKVSHR VLGPVREPRC SDRRRRQQPL NHRSTTSSLA PSPTLASSGP TSSRNMGSCL LPNSLSLSGS SCSFSSSGDK PEAVMVIGKS LLGAGARIPC IRTRLQARPR LGRSSPPTRR GMRGSSPTSP IPQTRESSEL EPGPHSATPG LPQAGPPRPR SAPAFSPISC TLSDSPSRIC YSRGLLNQCE VCFVPKSPPL TISPRV

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.

Product Details

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:	AGBL5
Alternative Name:	Agbl5 (AGBL5 Products)
Background:	Cytosolic carboxypeptidase-like protein 5 (EC 3.4.17.-) (EC 3.4.17.24) (ATP/GTP-binding protein-like 5) (Protein deglutamylase CCP5),FUNCTION: Metallocarboxypeptidase that mediates deglutamylation of tubulin and non-tubulin target proteins (PubMed:21074048, PubMed:20519502, PubMed:24022482, PubMed:26829768). Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of alpha- and beta-tubulin (PubMed:21074048, PubMed:20519502, PubMed:24022482). Cleaves alpha- and gamma-linked polyglutamate tubulin side-chain, as well as the branching point glutamate (PubMed:21074048, PubMed:24022482). Also catalyzes the removal of alpha-linked glutamate residues from the carboxy-terminus of alpha-tubulin (PubMed:24022482). Mediates deglutamylation of nucleotidyltransferase CGAS, leading to CGAS antiviral defense response activation (PubMed:26829768). {ECO:0000269|PubMed:20519502, ECO:0000269|PubMed:21074048, ECO:0000269|PubMed:24022482, ECO:0000269|PubMed:26829768}.
Molecular Weight:	97.6 kDa
UniProt:	Q09M02

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. 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