

Datasheet for ABIN3088375
AGAP2 Protein (AA 1-1192) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	AGAP2
Protein Characteristics:	AA 1-1192
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGAP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MSRGAGALQR RTTTYLISLT LVKLESVPPP PPSPSAAAVG APGARGSEPR DPGSPRGAAE PGKKRHERLF HRQDALWIST SSAGAGGAEP PALSPAPASP ARPVSPAPGR RLSLWAAPPG PPLSGGLSPD SKPGGAPSSS RRPLLSSPSW GGPEPEGRTG GGVPGSSSPH PGTGSRRLKV APPPPAPKPC KTVTTSGAKA GGGKGAGSRL SWPESEGKPR VKGSKSSAGT GASVSAAATA AAAGGGGSTA STSGGVGAGA GARGKLSPRK GKSKTLDNSD LHPGPPAGSP PPLTLPPTPS PATAVTAASA QPPGPAPPIT LEPPAPGLKR GREGGRASTR DRKMLKFISG IFTKSTGGPP GSGPLPGPPS LSSGSGSREL LGAELRASP AVINSQEWTL SRSIPELRLG VLGDARSGKS SLIHRFLTGS YQVLEKTESE QYKKEMLVDG QTHLVLIREE AGAPDAKFSG WADAVIVFVS LEDENSFQAV SRLHGQLSSL RGEGRGGLAL ALVGTQDRIS ASSPRVVGDA RARALCADMK RCSYYETCAT YGLNVDRVFQ EVAQKVVTLR KQQQLLAACK SLPSSPSHSA ASTPVAGQAS NGGHTSDYSS SLPSSPNVGH RELRAEAAAV AGLSTPGSLH RAAKRRTSLF ANRRGSDSEK RSLDSRGETT GSGRAIPIKQ SFLLKRSNGS LNKEWKKKYV TLSSNGFLLY HPSINDYIHS</p>
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THGKEMDLLR TTVKVPGRKP PRAISAFGPS ASINGLVKDM STVQMGEGL E ATTPMPSPSP
SPSSLQPPPD QTSKHLKPD RNLARALSTD CTPSGDLSPL SREPPSPMV KKQRRKLLT
PSKTEGSAGQ AEAKRKMWKL KSFGSLRNIY KAEENFEFLI VSSTGQTWHF EAASFEERDA
WVQAIESQIL ASLQCESSK VKLRTDSQSE AVAIQAIRNA KGNSICVDCG APNPTWASLN
LGALICIECS GIHRNLGTHL SRVRSLLDD WPRELTLVLT AIGNDTANRV WESDTRGRAK
PSRDSSREER ESWIRAKYEQ LLFLAPLSTS EEPLGRQLWA AVQAQDVATV LLLLAHARHG
PLDTSVEDPQ LRSPLHLAAE LAHVITQLL LWYGADVAAR DAQGRALFY ARQAGSQLCA
DILLQHGCPC EGGSAATPS AATPSITAT PSPRRSSAA SVGRADAPVA LV

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!

Product Details

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:

AGAP2

Alternative Name:

AGAP2 ([AGAP2 Products](#))

Background:

Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2 (AGAP-2) (Centaurin-gamma-1) (Cnt-g1) (GTP-binding and GTPase-activating protein 2) (GGAP2) (Phosphatidylinositol 3-kinase enhancer) (PIKE),FUNCTION: GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. It also regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. It seems to be oncogenic. It is overexpressed in cancer cells, prevents apoptosis and promotes cancer cell invasion.

{ECO:0000269|PubMed:12640130, ECO:0000269|PubMed:14761976, ECO:0000269|PubMed:15118108, ECO:0000269|PubMed:16079295}.

Target Details

Molecular Weight: 124.7 kDa

UniProt: [Q99490](#)

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. 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