Datasheet for ABIN3135049

AGAP2 Protein (AA 1-1186) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	AGAP2
Protein Characteristics:	AA 1-1186
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGAP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSRGAGALQR RTTTYLISLT LVKLESVPPP PPSPSAAAAG APGARGSEPR DPGSPRGSEE PGKKRHERLF HRQDALWIST SSAGTGGAEP PALSPAPASP ARPVSPAPGR RLSLWAAPPG PPLSGGLSPD SKPGGAPSSS RRPLLSSPSW GGPEPEGRTG GGVPGSSSPH PGTGSRRLKV APPPPAPKPF KTVTTSGAKA GGGKGAGSRL SWPESEGKPR VKGSKSTAGT GASAAAAGGG GSAAVTTSGG VGAGAGTRGK LSPRKGKSKT LDNSDLHPGP SAGSPPLTVP AIPVPATSVT ATSTQPLGPA PPITLEPPAP GLKRGREGGR ASTRDRKMLK FISGIFTKST GGPPGPGPLP GPQGLSSSSG SRELLGAELR TSPKAVVNSQ EWTLSRSIPE LRLGVLGDVR SGKSSLIHRF LTGSYQVLEK IESEQYKKEM LVDGQTHLVL IREEAGAPDA KFSGWADAVI FVFSLEDESS FQAVSRLHGQ LSSLRGEGRG GLALALVGTQ DRISASSPRV VGDARARALC TDMKRCSYYE TCATYGLNVD RVFQEVAQKV VTLRKQQQLL AACKSLPSSP SHSAASTPVA GQASNGGHTS DYSSSLPSSP NVGHRELRAE AAAVAGLSTP GSLHRAAKRR TSLFANRRGS DAEKRSLDSR

GETTGSGRAI PIKQSFLLKR SGNSLNKEWK KKYVTLSSNG FLLYHPSIND YIHSTHGKEM DLLRTTVKVP GKRPPRAISA FGPSASINGL VKDMSTVQMG EGPEASTPMP SPSPSPSSLQ LPTDQTSKHL LKPDRNLARA LSTDCTPSGD LSPLSREPPP SPMVKKQRRK KLSTPSKTEG SAVQAEAKRK MWKLKSFGSL RNIYKAEENF EFLIVSSTGQ TWHFEAASFE ERDAWVQAIE SQILASLQCC ESSKVKLRTD SQSEAVAIQA IRNAKGNSTC VDCGAPNPTW ASLNLGALIC IECSGIHRNL GTHLSRVRSL DLDDWPRELT LVLTAIGNDT ANRVWESDTR GRAKPTRDSS REERESWIRA KYEQLLFLAP LGTTEEPLGR QLWAAVEAQD VAAVLLLLAH ARHGPLDTSV EDPQLRSPLH LAAELAHVVI TQLLLWYGAD VAARDAQGRT ALFYARQAGS QLCADILLQH GCPGEGGSTA TTPSAATTPS ITATPSPRRR SSAASLGRVD TTIALV

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!

Product Details

	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:	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) (Phosphatidylinositol 3-kinase enhancer) (PIKE),FUNCTION: GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. 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 (By similarity). {ECO:0000250}.
Molecular Weight:	124.5 kDa
UniProt:	Q3UHD9

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

Application Details

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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