Datasheet for ABIN3095764

SYNRG Protein (AA 1-1314) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SYNRG
Protein Characteristics:	AA 1-1314
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYNRG protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MALRPGAGSG GGGAAGAGAG SAGGGGFMFP VAGGIRPPQA GLMPMQQQGF PMVSVMQPNM QGIMGMNYSS QMSQGPIAMQ AGIPMGPMPA AGMPYLGQAP FLGMRPPGPQ YTPDMQKQFA EEQQKRFEQQ QKLLEEERKR RQFEEQKQKL RLLSSVKPKT GEKSRDDALE AIKGNLDGFS RDAKMHPTPA SHPKKPGPSL EEKFLVSCDI STSGQEQIKL NTSEVGHKAL GPGSSKKYPS LMASNGVAVD GCVSGTTTAE AENTSDQNLS IEESGVGVFP SQDPAQPRMP PWIYNESLVP DAYKKILETT MTPTGIDTAK LYPILMSSGL PRETLGQIWA LANRTTPGKL TKEELYTVLA MIAVTQRGVP AMSPDALNQF PAAPIPTLSG FSMTLPTPVS QPTVIPSGPA GSMPLSLGQP VMGINLVGPV GGAAAQASSG FIPTYPANQV VKPEEDDFQD FQDASKSGSL DDSFSDFQEL PASSKTSNSQ HGNSAPSLLM PLPGTKALPS MDKYAVFKGI AADKSSENTV PPGDPGDKYS AFRELEQTAE NKPLGESFAE FRSAGTDDGF TDFKTADSVS PLEPPTKDKT FPPSFPSGTI QQKQQTQVKN PLNLADLDMF SSVNCSSEKP LSFSAVFSTS KSVSTPQSTG SAATMTALAA

TKTSSLADDF GEFSLFGEYS GLAPVGEQDD FADFMAFSNS SISSEQKPDD KYDALKEEAS PVPLTSNVGS TVKGGQNSTA ASTKYDVFRQ LSLEGSGLGV EDLKDNTPSG KSDDDFADFH SSKFSSINSD KSLGEKAVAF RHTKEDSASV KSLDLPSIGG SSVGKEDSED ALSVQFDMKL ADVGGDLKHV MSDSSLDLPT VSGQHPPAAD IEDLKYAAFG SYSSNFAVST LTSYDWSDRD DATQGRKLSP FVLSAGSGSP SATSILQKKE TSFGSSENIT MTSLSKVTTF VSEDALPETT FPALASFKDT IPQTSEQKEY ENRDYKDFTK QDLPTAERSQ EATCPSPASS GASQETPNEC SDDFGEFQSE KPKISKFDFL VATSQSKMKS SEEMIKSELA TFDLSVQGSH KRSLSLGDKE ISRSSPSPAL EQPFRDRSNT LNEKPALPVI RDKYKDLTGE VEENERYAYE WQRCLGSALN VIKKANDTLN GISSSSVCTE VIQSAQGMEY LLGVVEVYRV TKRVELGIKA TAVCSEKLQQ LLKDIDKVWN NLIGFMSLAT LTPDENSLDF SSCMLRPGIK NAQELACGVC LLNVDSRSRK EEKPAEEHPK KAFNSETDSF KLAYGGHQYH ASCANFWINC VEPKPPGLVL PDLL

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 -

Product Details

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

Target Details

Target:	SYNRG
Alternative Name:	SYNRG (SYNRG Products)
Background:	Synergin gamma (AP1 subunit gamma-binding protein 1) (Gamma-synergin),FUNCTION: Plays a role in endocytosis and/or membrane trafficking at the trans-Golgi network (TGN) (PubMed:15758025). May act by linking the adapter protein complex AP-1 to other proteins (Probable). Component of clathrin-coated vesicles (PubMed:15758025). Component of the aftiphilin/p200/gamma-synergin complex, which plays roles in AP1G1/AP-1-mediated protein trafficking including the trafficking of transferrin from early to recycling endosomes, and the membrane trafficking of furin and the lysosomal enzyme cathepsin D between the trans-Golgi network (TGN) and endosomes (PubMed:15758025). {ECO:0000269|PubMed:15758025, ECO:0000305|PubMed:12538641}.
Molecular Weight:	140.7 kDa
UniProt:	Q9UMZ2

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

Application Details

	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. 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