Datasheet for ABIN3124264

SGSM2 Protein (AA 1-1005) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SGSM2
Protein Characteristics:	AA 1-1005
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGSM2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MGSAEDAVKE KLLWNVKKEV KQIMEEAVTR KFVHEDSSHI IALCGAVEAC LLHQLRRRAA GFLRSDKMAA LFTKVGKTCP VAEDICHKVQ ELQQQAEGRK PSGGSQEALR KQGSTGGKAP ALSPQALKHI WVRTALMEKV LDRVVQYLAE NCSKYYEKEA LLADPVFGPI LACLLVGPCA LEYTKLKTAD HYWTDPSADE LVQRHRIRGP PNRQDSPAKR PALGIRKRHS SGSASEDRLA ACAREYVESL HQNSRTRLLY GKNNVLVQPK EDMEAVPGYL SLHQSAENLT LKWTPNQLMN GTLGDSELEK SVYWDYALVV PFSQIVCIHC HQQKSGGTLV LVSQDGIQRP PLHFPQGGHL LSFLSCLENG LLPRGQLEPP LWTQQGKGKV FPKLRKRSSI RSIDVEELGV GRATDYVFRI IYPGHRHEHN AGDMIEMQGF GPSLTAWHLE PLCSQGSSCL SCSSSSSPYA TPSHCSCIPD RLPLRLLCES MKRQIVSRAF YGWLAYCRHL STVRTHLSAL VHHNIIPPDR PPGASGGLTK DVWSKYQKDE KNYKELELLR QVYYGGVEHE IRKDVWPFLL GHYKFGMSKK EMEQVDTAVA ARYQQVLAEW KACEVVVRQR EREAHPATLT KFSSGSSIDS HVQRLVHRDS TISNDVFISV

DDLEPSGPQD LEDSKPKREQ EPGAGTPGIA AAEQQSVEFD SPDSGLPSSR NYSVASGIQS SLDEAQSVGF EDDGAGEDGS EGPATAAHTF PGPHDPGQET LAPASELEAG QELAAVCAAA YTIELLDTVA LNLHRIDKDV QRCDRNYWYF TTSNLERLRD IMCSYVWEHL DMGYVQGMCD LLAPLLVILD NDQLAYSCFS HLMKRMGQNF PSGGAMDSHF ANMRSLIQIL DSELFELMHQ NGDYTHFYFC YRWFLLDFKR ELLYEDVFAV WEVIWAARRI SSEHFVLFIA LALVEAYREI IRDNNMDFTD IIKFFNERAE RHDAQEILRI ARDLVHKVQM LIDNK

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.

Product Details

	• 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:	SGSM2
Alternative Name:	Sgsm2 (SGSM2 Products)
Background:	Small G protein signaling modulator 2 (RUN and TBC1 domain-containing protein 1),FUNCTION: Possesses GTPase activator activity towards RAB32, RAB33B and RAB38. Regulates the trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes by inactivating RAB32 and RAB38. Inhibits RAB32 and RAB38 activation both directly by promoting their GTPase activity and indirectly by disrupting the RAB9A-HPS4 interaction which is required for RAB32/38 activation (PubMed:26620560). {ECO:0000269|PubMed:26620560}.
Molecular Weight:	113.1 kDa
UniProt:	Q80U12

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

Application Details

	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