Datasheet for ABIN3094960

RGS22 Protein (AA 1-1264) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RGS22
Protein Characteristics:	AA 1-1264
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RGS22 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPEKRLTAEP PTITEEEFED SLATDDFLVD YFNEFLSLPT FSEAIRFNAD YGVFEVANDA PQFLEKQLKK ILQNQQPRNP IYDVVRKGKN EVKPVQMNAP DEDETINVNY NIMCLSREEG IKWIKKERLP AFLESDCYFE YRLAKLVSQV RWSKSGMNFT VGSNFSPWIV KKPPSLPPPA TEEDNLVIMK KFYVSLGEAS YTQTKDWFAL AKQSQQTVST FSLPCCVPYN KLKSPAISSV SENFIFDDGV HPRTKKDPSK TNKLISEFEE EEGEEEEVSV SLQDTPSQAL LRVYLEKKQD VDESLTMHFS TCEEFLSSYI YFILRGAIQQ IVGKPVGETP DYINFNNITK VSFDDCFESI HGKNFLSELV QTTKERSEEI EQTSLSSKNE SAGPESRADW CISHRTYDIG NRKEFERFKK FIKGTLGERY WWLWMDIERL KVLKDPGRHQ RHLEKMKKCY LVSNGDYYLS AEILSKFKLL DGSQWNEEHL RNIQSEVLKP LLLYWAPRFC VTHSASTKYA SAELKFWHLR QAKPRKDIDP FPQMATLLPL RPKSCIPQIP EIQKEEFSLS QPPKSPNKSP EVKTATQKPW KRELLYPGSS KDDVIEKGSK YMSESSKVIH LTSFTDISEC LKPQLDRRYA YTEEPRVKTV SDVGALGGSD

MENLLQSLYV ENRAGFFFTK FCEHSGNKLW KNSVYFWFDL QAYHQLFYQE TLQPFKVCKQ AQYLFATYVA PSATLDIGLQ QEKKKEIYMK IQPPFEDLFD TAEEYILLLL LEPWTKMVKS DQIAYKKVEL VEETRQLDST YFRKLQALHK ETFSKKAEDT TCEIGTGILS LSNVSKRTEY WDNVPAEYKH FKFSDLLNNK LEFEHFRQFL ETHSSSMDLM CWTDIEQFRR ITYRDRNQRK AKSIYIKNKY LNKKYFFGPN SPASLYQQNQ VMHLSGGWGK ILHEQLDAPV LVEIQKHVQN RLENVWLPLF LASEQFAARQ KIKVQMKDIA EELLLQKAEK KIGVWKPVES KWISSSCKII AFRKALLNPV TSRQFQRFVA LKGDLLENGL LFWQEVQKYK DLCHSHCDES VIQKKITTII NCFINSSIPP ALQIDIPVEQ AQKIIEHRKE LGPYVFREAQ MTIFGVLFKF WPQFCEFRKN LTDENIMSVL ERRQEYNKQK KKLAVLEDEK SGKDGIKQYA NTSVPAIKTA LLSDSFLGLQ PYGRQPTWCY SKYIEALEQE RILLKIQEEL EKKLFAGLQP LTNFKASSST MSLKKNMSAH SSQK

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:	RGS22
Alternative Name:	RGS22 (RGS22 Products)
Background:	Regulator of G-protein signaling 22 (RGS22),FUNCTION: Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. {ECO:0000250}.
Molecular Weight:	147.2 kDa
UniProt:	Q8NE09
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling

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

Application Details

	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