

Datasheet for ABIN3131200

RGS22 Protein (AA 1-1258) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	RGS22
Protein Characteristics:	AA 1-1258
Origin:	Mouse
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:	<p>MPEKRLSAEP PEVTEEEFEN YLATDNFLVD YFNEFLSLPT FPEAIRFNVD YGVFEVVNDA</p> <p>PQLLEKQLKK ILQNQQPRNP IYDVVRKGKS DSKSTQKSVP CEDEAINVNY SIMCLKREQG</p> <p>INWIKRERLP AFLESDCYFE YRLAKLISQA TWSSTGMNFI VGTNFTPWIL RRPPAPPPPS</p> <p>TDEDNYMIMK KFYVSLGQAS YTQTKDWFTL AKESENTVTM ASLPCCIPHH QTASPIATA</p> <p>SEIFDDGVHP RTIKSLSKSS KAVSELDEEE EGSISMKDSP SQALLRVYLE KKGKERNLT</p> <p>LHFSSVEEFL DAYIIFILRE AIQHITGQSL SDTPEYINNY KVSHVIFDKV PPVPSNKAIV SPPVEMVEEI</p> <p>SKDRLENVSL SSESESIGPE SRADWCISHR TYDIGNRREF ERFKKFLKGT LGERYWWLWM</p> <p>DIERLKVLKD PERHQRHLEK MKKCYLVSSG ERYLSAEILS KFKLLHGSRW TADHLKNIQA</p> <p>EVLKPLLLYW APRFCVTHSA SAKNASTELK FWRLRQEKPR KDVDPPFPQMA TLLPLRPKSC</p> <p>IPQTPEVQGE EINLFQPSKF KKLSKINAGT QQLGRSEPLN AVSSKDGGLE KGSKRLPEST</p> <p>TVVRLTSFTD ISECLKPQLE RKYTYTEHN VKTVSNVGAL GGFDMENLLQ SLYVENRAGF</p>

FFTKFCENSG NKLWKHSVYF WFDLQAYHQL FYQETLQPFK VCKQAQYLFA TYIAPSASF
IGLHQEGKKD IYMKIQPPFE DLFDTAEEFI LLSLLEPWTQ MVMSDKMAYK KVELQEETRQ
LDSACFRKLH ALHKETISKK AEDTTGYAMA KLSLSDVSKQ TEYWLVNPEG YKHFTFTDLL
NNKLEFEHFR QFLESHSSSL DLMCWIDIEQ FRRIFKDQK QREEKSIYIK NKYLNKKYFF
GPRSPASLHQ QNQIMLLSGG WGRILHEQLD ASVLVEIQKH VLNRLNVWL PLFLSSEQFA
SRQIKTQMK DIADELLLQR HDRKIGVWKP VESKWISSSC EIIAFRKALL NPVIARQFQR
FVALKGDLL E NGVLFWQEVQ KFKDLCHSHC DESIIHKKIT TIINCINSY IPPALQIDIP VEQAQKILEH
RKELGPYVFR EAQMTIFGVL FKFWPQFCEF RKNLTDEKIM SVLERRQEHK QKRKASDTEE
DKAGKSGVKQ YASTTGSLTK PVLGSESLLV LQSYGRQPTW CYSKYIEALE QERILLKIQE
EVERKMFTGT SSFTNLLKPS TGSALSLKKN VSLHSIQR

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,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:	145.9 kDa
UniProt:	G3UYX5
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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

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