

Datasheet for ABIN3136988

## Regulating Synaptic Membrane Exocytosis 1 (RIMS1) (AA 1-1463) protein (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	Regulating Synaptic Membrane Exocytosis 1 (RIMS1)
Protein Characteristics:	AA 1-1463
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MSSAVGPRGP RPPTVPPPMQ ELPDLSHLTE EERNIIMAVM DRQKEEEEKE EAMLKCVVRD            MAKPAACKTP RNAESQPHQP PLNIFRCVCV PRKPSSEEGG PDRNWRLHQQ FESYKEQVRK            IGEEARRYQG EHKDDAPTCG ICHKTKFADG CGHLCSYCRT KFCARCGGRV SLRSNNEDKV            VMWVCNLCKR QQEILTKSGA WFFGSGPQQP SQDGTLSDTA TGAGSEVPRE KKRLLQERSR            SQTPLSTAAV SSQDTASHGA PLDRNKGAEP SQQALGPEQK QASRSRSEPP RERKKAPGLS            EQNGKGGQKS ERKRVPKSVV QPGEGTADER ERKERRETRR LEKGRSQDYP DRLEKREDGR            VAEDEKQRKE EEGVSTPEYT SCEDVELESE SVSEKGDLDY WLDAPATWHSR ETSPISHPV            TWQPSKEGDR LIGRVILNKR TTMPKESGAL LGLKVVGGMK TDLGRLGAFI TKVKKGSLAD            VVGHLRAGDE VLEWNGKPLP GATNEEVYNI ILESKSEPQV EIVSRPIGD IPRIPESSHP            PLESSSSSFE SQKMERPSIS VISPTSPGAL KDAPQVLPQG LSVKLWYDKV GHQLIVNVLQ            ATDLPPRVVG RPRNPYVKMY FLPDRSDKSK RRTKTVKKLL EPKWNQTFVY SHVHRRDFRE</p>

RMLEITVWDQ PRVQDEESEF LGEILIELET ALLDDEPHWY KLQTHDESSL PLPQPSPFMP  
RRHIHGESS KKLQRSQRIS DSDISDYVD DGIGVPPVG YRASARESKA TTLTVPEQQR  
TTHHRSRVS PHRGDDQGRP RSRLPNVPLQ RSLDEIHPTR RSRSPTRHHD ASRSLADHRS  
RHAESQYSSE PSELLMLPR AKRGRSAECL HMTSELQPSL DRARSASTNC LRPDTSLHSP  
ERERGRWSPS LARRRPASPR IQIQHASPEN DRHSRKERS SIQKQSRKGT ASDADRVLP  
CLSRRGYAIP RATDQPVIRG KHTTRSRSE HSSIRTLCSM HHLAPGGSAP PSQLLTRTHR  
QGSPTQSPPA DTSFGSRRGR QLPQVPVRSG SIEQASLVVE ERTRQMKMKV HRFKQTGSG  
SSQELDHEQY SKYNIHKDQY RSCDNASAKS SDSVSDVSA ISRASSTSRL SSTSFMSEQS  
ERPRGRISSE TPKMQGRRMG TSGRAIKST SVSGEIYTL HNDGSQSDTA VGTVGAGGKK  
RRSSLSAKVV AIVSRRSRST SQLSQTESGH KKLKSTIQRS TETGMAAEMR KMVRQPSRES  
TDGSINSYSS EGNLIFPGVR VGPDSQFSD LDGLGPAQLV GRQTLATPAM GDIQIGMEDK  
KGQLEVEVIR ARSLTQKPGS KSTPAPYVKV YLLENGACIA KKKTRIARKT LDPLYQQSLV  
FDESPQGKVL QVIVWGDYGR MDHKCFMGVA QILLEELDLS SMVIGWYKLF PPSSLVDPTL  
TPLTRRASQS SLESSSGPPC IRS

**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.**

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### 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

## Product Details

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.
- 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:	Regulating Synaptic Membrane Exocytosis 1 (RIMS1)
Alternative Name:	Rims1 ( <a href="#">RIMS1 Products</a> )
Background:	Regulating synaptic membrane exocytosis protein 1 (Rab-3-interacting molecule 1) (RIM 1) (Rab-3-interacting protein 1),FUNCTION: Rab effector involved in exocytosis (PubMed:11797009). May act as scaffold protein that regulates neurotransmitter release at the active zone. Essential for maintaining normal probability of neurotransmitter release and for regulating release during short-term synaptic plasticity (PubMed:11797009). Plays a role in dendrite formation by melanocytes (By similarity). {ECO:0000250 UniProtKB:Q86UR5, ECO:0000269 PubMed:11797009}.
Molecular Weight:	163.2 kDa
UniProt:	<a href="#">Q99NE5</a>
Pathways:	<a href="#">Synaptic Membrane</a> , <a href="#">Synaptic Vesicle Exocytosis</a> , <a href="#">Dicarboxylic Acid Transport</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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## Application Details

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as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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### 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 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!

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### Restrictions:

For Research Use only

## Handling

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### Format:

Liquid

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### 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.**

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### Handling Advice:

Avoid repeated freeze-thaw cycles.

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### Storage:

-80 °C

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### Storage Comment:

Store at -80°C.

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### Expiry Date:

12 months