

# Datasheet for ABIN3095013 RGS12 Protein (AA 1-1447) (Strep Tag)



Overview

Quantity:	250 µg
Target:	RGS12
Protein Characteristics:	AA 1-1447
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RGS12 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	MFRAGEASKR PLPGPSPPRV RSVEVARGRA GYGFTLSGQA PCVLSCVMRG SPADFVGLRA
	GDQILAVNEI NVKKASHEDV VKLIGKCSGV LHMVIAEGVG RFESCSSDEE GGLYEGKGWL
	KPKLDSKALG INRAERVVEE MQSGGIFNMI FENPSLCASN SEPLKLKQRS LSESAATRFD
	VGHESINNPN PNMLSKEEIS KVIHDDSVFS IGLESHDDFA LDASILNVAM IVGYLGSIEL
	PSTSSNLESD SLQAIRGCMR RLRAEQKIHS LVTMKIMHDC VQLSTDKAGV VAEYPAEKLA
	FSAVCPDDRR FFGLVTMQTN DDGSLAQEEE GALRTSCHVF MVDPDLFNHK IHQGIARRFG
	FECTADPDTN GCLEFPASSL PVLQFISVLY RDMGELIEGM RARAFLDGDA DAHQNNSTSS
	NSDSGIGNFH QEEKSNRVLV VDLGGSSSRH GPGGSAWDGV GGRGAQPWGA PWTGPFCPDP
	EGSPPFEAAH QTDRFWDLNK HLGPASPVEV PPASLRSSVP PSKRGTVGAG CGFNQRWLPV
	HVLREWQCGH TSDQDSYTDS TDGWSSINCG TLPPPMSKIP ADRYRVEGSF AQPPLNAPKR
	EWSRKAFGMQ SIFGPHRNVR KTKEDKKGSK FGRGTGLTQP SQRTSARRSF GRSKRFSITR

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3095013 | 02/25/2025 | Copyright antibodies-online. All rights reserved. SLDDLESATV SDGELTGADL KDCVSNNSLS SNASLPSVQS CRRLRERRVA SWAVSFERLL QDPVGVRYFS DFLRKEFSEE NILFWQACEY FNHVPAHDKK ELSYRAREIF SKFLCSKATT PVNIDSQAQL ADDVLRAPHP DMFKEQQLQI FNLMKFDSYT RFLKSPLYQE CILAEVEGRA LPDSQQVPSS PASKHSLGSD HSSVSTPKKL SGKSKSGRSL NEELGDEDSE KKRKGAFFSW SRTRSTGRSQ KKREHGDHAD DALHANGGLC RRESQGSVSS AGSLDLSEAC RTLAPEKDKA TKHCCIHLPD GTSCVVAVKA GFSIKDILSG LCERHGINGA AADLFLVGGD KPLVLHQDSS ILESRDLRLE KRTLFRLDLV PINRSVGLKA KPTKPVTEVL RPVVARYGLD LSGLLVRLSG EKEPLDLGAP ISSLDGQRVV LEEKDPSRGK ASADKQKGVP VKQNTAVNSS SRNHSATGEE RTLGKSNSIK IKGENGKNAR DPRLSKREES IAKIGKKKYQ KINLDEAEEF FELISKAQSN RADDQRGLLR KEDLVLPEFL RLPPGSTELT LPTPAAVAKG FSKRSATGNG RESASQPGEQ WEPVQESSDS PSTSPGSASS PPGPPGTTPP GQKSPSGPFC TPQSPVSLAQ EGTAQIWKRQ SQEVEAGGIQ TVEDEHVAEL TLMGEGDISS PNSTLLPPPS TPQEVPGPSR PGSGTHGSRD LPVNRIIDVD LVTGSAPGRD GGIAGAQAGP GRSQASGGPP TSDLPGLGPV PGEPAKPKTS AHHATFV

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

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	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:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
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:	RGS12
Alternative Name:	RGS12 (RGS12 Products)

Background:	Regulator of G-protein signaling 12 (RGS12),FUNCTION: Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. {ECO:0000250 UniProtKB:008774}., FUNCTION: [Isoform 5]: Behaves as a cell cycle-dependent transcriptional repressor, promoting inhibition of S-phase DNA synthesis. {ECO:000269 PubMed:12024043}.
Molecular Weight:	156.4 kDa
UniProt:	014924
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.

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### Application Details

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!
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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months