

Datasheet for ABIN3095013

**RGS12 Protein (AA 1-1447) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	RGS12
Protein Characteristics:	AA 1-1447
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RGS12 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MFRAGEASKR PLPGSPPPRV RSVEVARGRA GYGFTLSGQA PCVLSCVMRG SPADFVGLRA GDQILAVNEI NVKKASHEDV VKLIGKCSGV LHMVIAEGVG RFESCSSDEE GGLYEGKGWL KPKLDSKALG INRAERVVEE MQSGGIFNMI FENPSLCASN SEPLKLKQRS LSESAATRFD VGHEINNPNN 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 EGSPPFEEAH QTDRFWDLNK HLGPAASPVEV PPASLRSSVP PSKRGTVGAG CGFNQRWLVP HVLREWQCGH TSDQDSYTDS TDGWSSINCG TLPPPMSKIP ADYRVEGSF AQPLNAPKR EWSRKAFGMQ SIFGPHRNVR KTKEDKKGSK FGRGTGLTQP SQRTSARRSF GRSKRFSITR SLDDLESATV SDGELTGADL KDCVSNNSLS SNASLPSVQS CRRLRERRVA SWAVSFERLL
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QDPVGVRYFS DFLRKEFSEE NILFWQACEY FNHVPADHKK 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  
ILESRLDLRLE KRTLFRDLV PINRSVGLKA KPTKPVTEVL RPVVARYGLD LSGLLVRLSG  
EKEPLDLGAP ISSLDGQRVV LEEKDPSRGK ASADKQKGVP VKQNTAVNSS SRNHSATGEE  
RTLKGKNSIK IKGENGKNAR DPRLSKREES IAKIGKKKYQ KINLDEAEFF FELISKAQSN  
RADDQRGLLR KEDLVLPEFL RLPPGSTELT LPTAAVAKG FSKRSATGNG RESASQPGEQ  
WEPVQESSDS PSTSPGSASS PPGPPGTTTP GQKSPSGPFC TPQSPVSLAQ EGTAQIWKRQ  
SQEVEAGGIQ TVEDEHVAEL TLMGEGDISS PNSTLLPPPS TPQEVGPSPR PGSGTHGSRD  
LPVNRIIDVD LVTGSAPGRD GGIAGAAQAGP GRSQASGGPP TSDLPLGLPV PGEPAPKPKTS  
AHHATFV

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human RGS12 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

## Product Details

	the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

Target:	RGS12
Alternative Name:	RGS12 ( <a href="#">RGS12 Products</a> )
Background:	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:O08774}. Isoform 5: Behaves as a cell cycle-dependent transcriptional repressor, promoting inhibition of S-phase DNA synthesis. {ECO:0000269 PubMed:12024043}.
Molecular Weight:	157.3 kDa Including tag.
UniProt:	<a href="#">O14924</a>
Pathways:	<a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## 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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you

## Application Details

receive your protein of interest.

Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process