

Datasheet for ABIN3095114
RPGR Protein (AA 1-1017) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	RPGR
Protein Characteristics:	AA 1-1017
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPGR protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MREPEELMPD SGAVFTFGKS KFAENNPGRF WFKNDVPVHL SCGDEHSAVV TGNNKLYMFG SNNWGQLGLG SKSAISKPTC VKALKPEKVK LAACGRNHTL VSTEGGNVYA TGGNNEGQLG LGDTEERNTF HVISFFTSEH KIKQLSAGSN TSAALTEDGR LFMWGDNSEG QIGLKNVSNV CVPQQVTIGK PVSWISCGYY HSAFVTTDGE LYVFGEPENG KLGLPNQLLG NHRTPQLVSE IPEKVIQVAC GGEHTVVLTE NAVYTFGLGQ FGQLGLGTFL FETSEPKVIE NIRDQTISYI SCGENHTALI TDIGLMTYFG DGRHGKLG LG LENFTNHFIP TLCSNFLRFI VKLVACGGCH MVVFAAPHRG VAKEIEFDEI NDTCLSVATF LPYSSLTSGN VLQRTLSARM RRRERERSPD SFSMRRTLPP IEGTLGLSAC FLPNSVFPRC SERNLQESVL SEQDLMQPEE PDYLLDEMTK EAEIDNSSTV ESLGETTDIL NMTHIMSLNS NEKSLKLSPV QKQKKQQTIG ELTQDTALTE NDDSDEYEEM SEMKEGKACK QHVSQGIFMT QPATTIEAFS DEEVGNDTGQ VGPQADTDGE GLQKEVYRHE NNNGVLDQLDA KEIEKESDGG HSQKESEAE IDSEKETKLA EIAGMKDLRE REKSTKKMSP FFGNLPDRGM NTESEENKDF VKKRESCKQD VIFDSERESV EKPDSYMEGA
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SESQQGIADG FQQPEAIEFS SGEKEDDEVE TDQNIRYGRK LIEQGNEKET KPIISKSMK
YDFKCDRLSE IPEEKEGAED SKGNIGIEEQE VEANEENVKV HGGKKEKTEI LSDDLTDKAE
DHEFSKTEEL KLEDVDEEIN AENVESKKKT VGDDSVPTG YHSKTEGAER TNDDSSAETI
EKKEKANLEE RAICEYNENP KGMYLDDADS SSLEILENSE TTPSKDMKKT KKIFLFKRV
SINQKIVKNN NEPLPEIKSI GDQILKSDN KDADQNHMSQ NHQNIPPTNT ERRSKSC

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human RPGR 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 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:

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.
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.

Product Details

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:	RPGR
Alternative Name:	RPGR (RPGR Products)
Background:	Could be a guanine-nucleotide releasing factor. Plays a role in ciliogenesis. Probably regulates cilia formation by regulating actin stress filaments and cell contractility. Plays an important role in photoreceptor integrity. May play a critical role in spermatogenesis and in intraflagellar transport processes (By similarity). May be involved in microtubule organization and regulation of transport in primary cilia. {ECO:0000250, ECO:0000269 PubMed:21933838}.
Molecular Weight:	114.0 kDa Including tag.
UniProt:	Q92834

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 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.

Handling

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