

Datasheet for ABIN3115356  
**RRP12 Protein (AA 1-1297) (rho-1D4 tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	1 mg
Target:	RRP12
Protein Characteristics:	AA 1-1297
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RRP12 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MGRSGKLPSG VSAKLKRWKK GHSSDSNPAL CRHRQAARSF FFSRPSGRSD LTVDAVKLHN ELQSGSLRLG KSEAPETPME EEAELVLTEK SSGTFLSGLS DCTNVTFISKV QRFWESNSAA HKEICAVLAA VTEVIRSQQG KETETEFYFAA LMTTMEAVES PESLAAYAYL LNLVLKRVPS PVLIKKFSDT SKAFMDIMSA QASSGSTSVL RWVLSCLATL LRKQDLEAWG YPVTLLQVYHG LLSFTVHPKP KIRKAAQHGK CSVLKGSEFM FEKAPAHHPA AISTAKFCIQ EIEKSGGSKE ATTTLHMLTL LKDLLPCFPE GLVKSCSETL LRVMTLSHVL VTACAMQAFH SLFHARPGLS TLSAELNAQI ITALYDYVPS ENDLQPLLAW LKVMKHAHIN LVRLQWDLGL GHLPRFFGTA VTCLLSPHSQ VLTAATQSLK EILKECVAPH MADIGSVTSS ASGPAQSVAK MFRAVEEGLT YKFHAAWSSV LQLLCVFFEA CGRQAHPVMR KCLQSLCDLR LSPHPHTAA LDQAVGAAVT SMGPEVVLQA VPLEIDGSEE TLDLPRSWLL PVIRDHVQET RLGFFTTYFL PLANTLKSKA MDLAQAGSTV ESKIYDTLQW QMWTLPLGFC TRPTDVAISF KGLARTLGMA ISERPDLRVT VCQALRTLIT KGCQAEADRA EVSRFAKNFL PILFNLYGQP VAAGDTPAPR RAVLETIRTY
-----------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

LTITDTQLVN SLLEKASEKV LDPASSDFTR LSVLDLVVAL APCADEAAIS KLYSTIRPYL  
ESKAHGVQKK AYRVLEEVCA SPQGP GALFV QSHLEDLKKT LLDSL RSTSS PAKRPRLKCL  
LHIVRKLSAE HKEFITALIP EVILCTKEVS VGARKNAFAL LVEMGHAFLR FGSNQEEALQ  
CYLVLIYPGL VGAVTMVSCS ILALTHLLFE FKGLMGTSTV EQLLENVCLL LASRTRDVVK  
SALGFIKVAV TVMDVAHLAK HVQLVMEIG KLSDDMRRHF RMKLRNLFTK FIRKFGFELV  
KRLLPEEYHR VLVNIRKAEA RAKRHRALSQ AAVEEEEEEE EEEPAQGKG DSIEEILADS  
EDEEDNEEEE RSRGKEQRKL ARQRSRAWLK EGGGDEPLNF LDPKVAQRVL ATQPGPGRGR  
KKDHGFKVSA DGRLLIREEA DGNKMEEEEG AKGEDEEMAD PMEDVIIRNK KHQKLKHQKE  
AEEEELEIPP QYQAGGSGIH RPVAKKAMPG AEYKAKKAKG DVKKKGRPDP YAYIPLNRSK  
LNRKMKMLQ GQFKGLVKAA RRGSVGHKN RRKDRRP

**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 RRP12 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

## Product Details

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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: RRP12

Alternative Name: RRP12 ([RRP12 Products](#))

Molecular Weight: 144.9 kDa Including tag.

UniProt: [Q5JTH9](#)

## 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

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