

Datasheet for ABIN3137112

**ALG13 Protein (AA 1-1166) (His tag)**[Go to Product page](#)**1** Image

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | ALG13  |
| Protein Characteristics:      | AA 1-1166  |
| Origin:                       | Mouse  |
| Source:                       | Insect Cells   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This ALG13 protein is labelled with His tag.                         |
| Application:                  | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

## Product Details

|           |   |
|-----------|---|
| Sequence: | MKRAFVTVGT TSFDELVARV VANDCVQILE SLGYNHLVLQ VGRGTVVPKP FRTESFTLDV<br>YRYKDSLKED LQQADLVISH AGAGSCLESL EKGKPLVVVV NEKLMNNHQF ELAKQLHKEG<br>HLFYCTCRVL SCPAPVSLLL VLLGSAKILQ QLPSATLSCF GYLPTQAPVL VATAYSYLHS<br>VFSSFPPLST FLIIPCTMQK GWKKYCGQKS LNEASMDEYL GSLGLFRKV AKDASCLFRA<br>ISEQLFHSQI HHLQIRRACV SYMKENQQAF ESYVEGSFEK YLERLGDPKE SAGQLELKAL<br>SLIYNRDFII YRYPGKPPTQ VTDNGFEDKI ILCYSNNGHY DSVYSKEFQS TAGICQAILY<br>ELLYKDVFW DEETLKTAVD LFRSGSRRNK HHALTASVEG SSDQKSSTED RTEEAAACSS<br>AASPPEGNKQ GTERQKVPES PSKMLFPYKV LKALDPEIYR NVEFDAWLDS RKELQKSECY<br>EYGGRYFFLG DKCQVCMESG GKYYNAHIQE IDNDKSSVVV FIEEFAERHS IPLAHVRPVN<br>QVALLPSWNA IPIRNGRGYP TITGGYFPEI VMTDMNMKQR KKMFKKFRGK EIYMTMAYSR<br>GDPLVPSRIQ HSMHYGHDPL LYYSQTAGHI LSSQHFYPQH SSQRQGRGYG MPRDSSHLIS<br>KQNLNPNKVG FCSGSGRKCC QSYDNVSYRS RSFRRSHRQM HCMNKGCCQYG FAPENGVEET |
|-----------|---|

VTFYALEEGN ETAYSTLPNN GGPTTMVPAT SGYCVARQGY NSCKPPLNSG DSNDHCDNGG  
YHGDYLYSSE QGYETSSVYT TTVSTANLSL QDSGPSSVPQ DTVTSYNYPQ KVLENSAAIA  
VSWASHVPVP VIPNCAGDNE ALRTSDISSQ NAIQPGFVPP PAQGSPAYLE PSAAGAAGAA  
AAAAAAAAPV ATPVAAPLPL PPPLPPPPPA TLEAGDASGF PLPPPPPPPP PPPPPYSYDP  
SGSDLPQDTK VLQYYFNLGL QCYHHNYWHP MVYMPHVQQQ LQPQPQPQPQ PQPQPQPQPQ  
PQPQPQPQQQ PPPPQQQQQQ EQVHGESYPD CTEQPLVDQS APQVYSDVVR EDGTQADVST  
NDTFPIADAV PLPHGAVYYP VMTDPYGSPL LGFDSYVPVA SDYSSIAMWH PVNAACGASA  
QIHGAMNPGP IGYMLLPNSP HYTPQN

**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.
- Mouse Alg13 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.

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### 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.

## Product Details

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.

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: ALG13

Alternative Name: Alg13 ([ALG13 Products](#))

Background: Isoform 1: Possible multifunctional enzyme with both glycosyltransferase and deubiquitinase activities., Isoform 2: May be involved in protein N-glycosylation, second step of the dolichol-linked oligosaccharide pathway (By. similarity).

Molecular Weight: 129.6 kDa Including tag.

UniProt: [Q9D8C3](#)

## 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: Protein has not been tested for activity yet. 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