

Datasheet for ABIN3135676

## CGNL1 Protein (AA 1-1298) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	CGNL1
Protein Characteristics:	AA 1-1298
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CGNL1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MELYFGEYQH VQQEYGVHLR LASGDTPKPR NSQPSKAGSY GVSIRVQGID GHPYIVLNNT  
ERCLAGTPFP ENAPSFSSV INNLSLHPSN GTVLKENTPE ELQLPENPYL QTSPLRGQKQ  
FSLHEGRNGV LERKDGPTKL PHVLNFQRHP ELLQPYDPEK NEVNAKKHHP PESPWLRNAT  
EDGTNCKKSR NCFPKSYGSQ PNSPTSEDLA KTNMTAIRLC SSVVIEDPQK QTSVCVNVQR  
CAKEGVGEET LSPRRKSPTA PSPQAYSETK KNRPDVLVFR RQDSAGPILD GARSRRSSSS  
STTPTSATSL YKFLDDQEC AIHADSVNRH ENRRYIPFLP GTGRDIDTCS IPGVDQLIEK  
FDQKPLQRR GRSKRNIN PDDRKRSSV DSAFPFGLQG NTEYLTEFSR NLGKSSEHLL  
RPSQVFPQRS VAQEHRGKHS PSSPPAKLQG GAQGAHPKPP LQNKDGKVLN KGRQESTGAC  
APSLPAPNKK EEEIKIATAT LMLQNRAVAA TSDSGAKKIS VKTFPSDSST QATPDLLKGG  
QELTQQTNEE TAKQILYNYL KEGGTDNEDA TKRKVNLFVE KIQTLKSRAA GSAQGSNQAP  
NSPSEGNLL DQKNKLILEV SELQQQLQLE MKNQQNIKEE RERMREDLEE LRVRHQSQVE  
ETATLQRRLE ESEGELRKSL EELFQVKMER EQHQTEIRDL QDQLSEMHDE LDSTKRSEDR

EKGALIEELL QAKQDLQDLL IAKEEQEDLL RKRERELTAL KGALKEEVSS HDQEMDKLKE  
QYDAELQAFR ESVEEATKNV EVLASRSNSS EQSQAEADLR EKVLKEENEK LQGRIAELE  
RAAQLQRQME DVKGDQAQAK ETLRKCESEV QQLEEALVHA RKEEKEATCA RRALEKELEQ  
AQRELSQVSQ EQKELLEKLR DEAEQKEQLR KLKNEMESER WHLDKTIQKL QKEMADIAEA  
SRTSSLELQK QLGEYKEKNR RELAEQMOTQL KEKCLEVEKA RLAASKMQDE LRLKEEELQD  
YQRAEEELT KRQLLEQSLK DLEYELEAKS HLKDDRSRLI KQMEDKVSQLE EIELEEERTN  
ADLLSERITW SREQMEQMRS ELLQEKAQK DLECDKISLE RQNKDLKSRI IHLEGSYRSS  
KEGLVVQMEA RIAELEDRLE NEERDRANLQ LSNRRLERKV KELVMQVDDE HLSLTDQKQD  
LSLRLKAMKR QVEEAEEID RLESSKKKLQ RELEEQMGVN EQLQGQLNSL KKGLRLKTL  
SKVLDDSDDD DLSSDAGSLY EAPLSYAFPK DSTIASQI

**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 Cgn1 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

## Product Details

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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.

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Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target: CGNL1

Alternative Name: Cgnl1 ([CGNL1 Products](#))

Background: May be involved in anchoring the apical junctional complex, especially tight junctions, to actin-based cytoskeletons. {ECO:0000269|PubMed:15292197}.

Molecular Weight: 149.2 kDa Including tag.

UniProt: [Q6AW69](#)

## Application Details

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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

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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## Handling

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

## Images

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