

Datasheet for ABIN3136666  
**NUP85 Protein (AA 1-656) (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	1 mg
Target:	NUP85
Protein Characteristics:	AA 1-656
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUP85 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	MEELDCEPAV TWIPGVNSKK KQMCFDWGP G EMLLCETSFN QTGKSEKVPS CPFYIIRKD VDVYSQILRK LFNESHGIFV GLQKIEEELS GKSRKAQLVR VSKNYRSVIR ACMEEMHQVA IAAKDPASGR QFSSQVSILS AMELIWNLCE ILFIEVAPAG PLLHLLDWV RLHVCEVDSL SADVLGGDNP SKHENFWDLV TVLVLQGRLD EARQMLAKEA DANPSCAGMC RVLGDL MRTM PILSPGNTQT LTELKWKQH WREECERHLQ DNTFAANPRL ESLCKIMLGD EAALLEQKEL LSNWWYHFLVT RLLYSNPTVK PIDLHFYAQS SLDMFLGGES SPEPLDNILM AAFEFDIHQV IKECSIALSN WWFVAHLTDL LDHCRLLQSH NLYFGSNMRE FLLLEYASGL FAHHS LWQLG VDYFDYCP EL GRVSLELHIE RIPLNTEQKA LKVL RICEQR QMTEQVKSIC KILAMKAVRN NRLGSALSWS IRAKDAAFAT LVSDRFLRDY CERGCFSDDL LIDNLGSAMM LSDRLTFLGK YREFHRLYGE KRFGDAASLL LSLMTSQIAP RSFWMTLLTD ALPLLEQKQV IFSAEQTYEL MRCLEDLASG RPECGE PDAQ RLQDDDIETT KVEMLRLALA RNLARAIIRE GSLEGS
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**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.
- Mouse Nup85 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.

#### 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:	NUP85
Alternative Name:	Nup85 ( <a href="#">NUP85 Products</a> )
Background:	Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance. As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP98/Nup98 and NUP153 to the nucleus. The Nup107-160 complex seems to be required for spindle assembly during mitosis. NUP85 is required for membrane clustering of CCL2-activated CCR2. Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidyl-inositol 3-kinase-Rac-lammellipodium protrusion cascade.
Molecular Weight:	75.7 kDa Including tag.
UniProt:	<a href="#">Q8R480</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:	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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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