



Datasheet for ABIN3117339

## POM121 Protein (AA 1-1249) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	POM121
Protein Characteristics:	AA 1-1249
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This POM121 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MSPAAAAAGA GERRRPIASV RDGRGRGCGG PARAVLLGLS LVGLLLYLVP AAAALAWLTV  
 GATAAWWGLS REPRGSRPLS SFVRKARHRR PLSSFVRKAR HRRTLFASPL AKSTANGNLL  
 EPRTLLEGPD PAELLLMGYS LGKPGPPQPA AAPEGQDLRD RPGRRPPARP APRSPPPRSP  
 PPRSPPPSPP THRAHHVYPS LPTPLLRPSR RPSPRDCGTL PNRVITPRR RYPIHQAQYS  
 CLGVLPTVCW NGYHKKAVLS PRNSRMVCSP VTVRIAPPDR RFSRSAIPEQ IISSTLSSPS  
 SNAPDPCAKE TVLSALKEKE KKRTVEEEDQ IFLDGQENKR RRHDSSSGSGH SAFEPLVANG  
 VPASFVPKPG SLKRGLNSQS SDDHLNKRSR SSSMSSLTGA YASGIPSSSR NAITSSYSST  
 RGISQLWKRN GPSSSPFSSP ASSRSQTPER PAKKIREEEL CHHSSSSTPL AADRESQGEK  
 AADTTPRKKQ NSNSQSTPGS SGQRKRKVQL LPSRRGEQLT LPPPPQLGYS ITAEDLDLEK  
 KASLQWFNQA LEDKSDAASN SVTETPPITQ PSFTFTLPAA APASPPTSLL APSTNPLLES  
 LKKMQTPPSL PPCPESAGAA TTEALSPPKT PSELLPPLGLS QSGPPGLLPS PSFDSKPPTT  
 LLGLIPAPSM VPATDTKAPP TLQAETATKP QATSAPSPAP KQSFLFGTQN TSPSSPAAPA

ASSAPPMFKP IFTAPPKSEK EGPTPPGPSV TATAPSSSSL PTTTSTTAPT FQPVFSSMGP  
PASVPLPAPF FKQTTTPATA PTTTAPLFTG LASATSAVAP ITSASPSTDS ASKPAFGFI  
NSVSSSSVST TTSTATAASQ PFLFGAPQAS AASFTPAMGS IFQFGKPPAL PTTTTVTTFS  
QSLHTAVPTA TSSSAADFSG FGSTLATSAP ATSSQPTLTF SNTSTPTFNI PFGSSAKSPL  
PSYPGANPQP AFGAAEQPP GAAKPALAPS FGSSFTFGNS AAPAAAPTPA PPSMIKVVPA  
YVPTPIHPIF GGATHSAFGL KATASAFGAP ASSQPAFGGS TAVFFGAATS SGFGATTQTA  
SSGSSSSVFG STTPSPFTFG GSAAPAGSGS FGINVATPGS STTTGAFSFG AGQSGSTATS  
TPFAGGLGQN ALGTTGQSTP FAFNVSSTTE SKPVFGGTAT PTFGLNTPAP GVGTSGSSLS  
FGASSAPAQG FVGVAAPFGSA ALSFSIGAGS KTPGARQLQ ARRQHTRKK

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

## Product Details

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### Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

### Grade:

Crystallography grade

## Target Details

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### Target:

POM121

### Alternative Name:

POM121 ([POM121 Products](#))

### Background:

Nuclear envelope pore membrane protein POM 121 (Nuclear envelope pore membrane protein POM 121A) (Nucleoporin Nup121) (Pore membrane protein of 121 kDa),FUNCTION: Essential component of the nuclear pore complex (NPC). The repeat-containing domain may be involved in anchoring components of the pore complex to the pore membrane. When overexpressed in cells induces the formation of cytoplasmic annulate lamellae (AL).  
{ECO:0000269|PubMed:17900573}.

### Molecular Weight:

127.7 kDa

### UniProt:

[Q96HA1](#)

## 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

## Application Details

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guarantee though.

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During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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