Datasheet for ABIN3117339

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

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Overview

Quantity:	250 µg
Target:	POM121
Protein Characteristics:	AA 1-1249
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POM121 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSPAAAAAGA GERRRPIASV RDGRGRGCGG PARAVLLGLS LVGLLLYLVP AAAALAWLTV GATAAWWGLS REPRGSRPLS SFVRKARHRR PLSSFVRKAR HRRTLFASPL AKSTANGNLL EPRTLLEGPD PAELLLMGSY LGKPGPPQPA AAPEGQDLRD RPGRRPPARP APRSPPPRSP PPRSPPPSPP THRAHHVYPS LPTPLLRPSR RPSPRDCGTL PNRFVITPRR RYPIHQAQYS CLGVLPTVCW NGYHKKAVLS PRNSRMVCSP VTVRIAPPDR RFSRSAIPEQ IISSTLSSPS SNAPDPCAKE TVLSALKEKE KKRTVEEEDQ IFLDGQENKR RRHDSSGSGH 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 PSLLPPLGLS QSGPPGLLPS PSFDSKPPTT

LLGLIPAPSM VPATDTKAPP TLQAETATKP QATSAPSPAP KQSFLFGTQN TSPSSPAAPA ASSAPPMFKP IFTAPPKSEK EGPTPPGPSV TATAPSSSSL PTTTSTTAPT FQPVFSSMGP PASVPLPAPF FKQTTTPATA PTTTAPLFTG LASATSAVAP ITSASPSTDS ASKPAFGFGI NSVSSSSVST TTSTATAASQ PFLFGAPQAS AASFTPAMGS IFQFGKPPAL PTTTTVTTFS QSLHTAVPTA TSSSAADFSG FGSTLATSAP ATSSQPTLTF SNTSTPTFNI PFGSSAKSPL PSYPGANPQP AFGAAEGQPP GAAKPALAPS FGSSFTFGNS AAPAAAPTPA PPSMIKVVPA YVPTPIHPIF GGATHSAFGL KATASAFGAP ASSQPAFGGS TAVFFGAATS SGFGATTQTA SSGSSSSVFG STTPSPFTFG GSAAPAGSGS FGINVATPGS STTTGAFSFG AGQSGSTATS TPFAGGLGQN ALGTTGQSTP FAFNVSSTTE SKPVFGGTAT PTFGLNTPAP GVGTSGSSLS FGASSAPAQG FVGVAPFGSA ALSFSIGAGS KTPGARQRLQ 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

	Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

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

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:	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

Application Details

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Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months