

Datasheet for ABIN3135622

Nlrp9b Protein (AA 1-1003) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	Nlrp9b (NLRP9B)
Protein Characteristics:	AA 1-1003
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nlrp9b protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAGSSGYGLL KLLQKLSDEE FQRFKELLRE EPEKFKLKPI SWTKIENSSK ESLVTL LNTH YPGQAWNMMML SLFLQVNRED LSIMAQKKKR HKQTKYKKFM KTTFERIWTLE TNTHIPDRN YHLIVEVQYK ALQEIFDSES EPVTAIVAGT TGEKTTFLR KAMLDWASGV LLQNRFAQYVF FFSVFSLNNT TELSLAELIS STLPESSE TV DDILSDPKRI LFILDGFDYL KFDLELRTNL CNDWRKRLPT QIVLSSLLQK IMLPGCSLLL ELGQISVPKI RHLLKYPRVI TMQGFSESV EFYCMSFFDN QRGIEVAENL RNNEVLHLCS NPYLCW MFCS CLKWQFDREE EGYFKAKTDA AFFTNFMVSA FKSTYAHSPS KQNRARL KTL CTLAVEGMWK ELVFDS EDL RRGISESDK AVWLKMQFLQ THGNHTV FYH PTLQSYFAAM FYFLKQDKDI CVPVIGSIPQ LLGNMYARGQ TQWLQLGTFL FGLINEQVAA LLQPCFGFIQ PIYVRQEIIC YFKCLGQQEC NEKLEERSQTL FSCLRDSQEE RFVRQVVDLL EEITVDISS DVLSVTAYAL QKSSKLLKHL LHIQKTVFSE IYCPDHCKTR T SIGKRRNTA EYWKTL CGIF CNLYVLDLDS CQFNKRAIQD LCNSMSPTPT

VPLTAFKLQS LSCSFMADFG DGSLFHTLLQ LPHLKYLNLY GTYLSMDVTE KLCAALRCSA
CRVEELLGK CGISSKACGI IAISLINSKV KHLNLSVENPL KNKGVMMLCE MLKDPSCVLQ
SLMLSYCCLT FIACGHLYEA LLSNKHLSLL DLGSNFLEDT GVNLLCEALK DPNCTKLKELW
LPGCFLTSQC CEEISAVLIC NRNLKTLKLG NNNIQDTGVR QLCEALSHPN CNLECLGLDL
CEFTSDCKD LALALTCTKT LNSLNLDWKT LDHSGLVVLC EALNHKRCNL KMLGLDKSAF
SEESQTLQD VEKNNNLNI LHPWFEAER NKRGTRLVWN SRN

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!

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.

Product Details

- 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: Nlrp9b (NLRP9B)

Alternative Name: Nlrp9b

Background: NACHT, LRR and PYD domains-containing protein 9B (NALP-delta),FUNCTION: As the sensor component of the NLRP9 inflammasome, plays a crucial role in innate immunity and inflammation. In response to pathogens, including rotavirus, initiates the formation of the inflammasome polymeric complex, made of NLRP9, PYCARD and CASP1. Recruitment of proCASP1 to the inflammasome promotes its activation and CASP1-catalyzed IL1B and IL18 maturation and release in the extracellular milieu. The active cytokines stimulate inflammatory responses. Inflammasomes can also induce pyroptosis, an inflammatory form of programmed cell death. NLRP9 inflammasome activation may be initiated by DHX9 interaction with viral double-stranded RNA (dsRNA), preferentially to short dsRNA segments. {ECO:0000269|PubMed:28636595}.

Molecular Weight: 114.8 kDa

UniProt: [Q66X22](#)

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

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

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