

Datasheet for ABIN3135186

## NLRC3 Protein (AA 1-1064) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	NLRC3
Protein Characteristics:	AA 1-1064
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRC3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MRRRYSHDPP GSFRETKVFG FRGEYGCKAL VDLAGKGSQ LLQVRDKMPD SPLGSQSNES</p> <p>RIPKHSEALL SRVGNDPELG SPSHRLASLM LVEGLTDLQL KEHDFTQVEA TRGVWHPARV</p> <p>ITLDRLFPL SRVSIPPRVS LTIGVAGVGK TTLVRHFVHC WARGQVGKGF SRVLPLTFRD</p> <p>LNTYEKLSAD RLIQSIFSSI GEASLVATAP DRVLLVDGL DECKTPLEFS NTMACSDPKK</p> <p>EIQVDHLITN IIRGNLFPEI SVWITSRPSA AGQIPGGLVD RMTEIRGLTE EEIKVCLEQM</p> <p>FPEEQNLLGQ VLSQVQANRA LYLMCTVPAF CRLTGLALGH LYRTRLAVQD IELPLPQTLC</p> <p>ELYSWYFRMA LGGEGQDKEK VSPRIKQVTQ GARKMVGTLG RLAFHGLVKK KYVFYEQDMK</p> <p>AFGVDLALLQ NTLCSCLLQR EETLASSVAY CFIHLSLQEF VAATYYYSAS KRAIFDLFTE</p> <p>SGMSWPRLGF LAHFRCAAQR ATQAKDGRLD VFLRFLSGLL SPRVNTLLAG SLLSQGEHQS</p> <p>YRDQVAEVLQ GFLHPDAAVC ARAINVLYCL SELRHTELAC SVEEAMRSGT LAGMTSPSHR</p> <p>TALAYLLQMS DICSPEADFS LCLSQHVLQS LLPQLLYCQS LRLDNNQFQD PVMELLGSVL</p>

SGKDCRIRKI SLAENQIGNK GAKALARSLI VNRSLITLDL RSNSIGPPGA KALADALKIN  
RTLTSLSLQS NVIKDDGVMC VAEALVSNQT ISMLQLQKNL IGLIGAQQMA DALKQNRSLK  
ALMFSSNTIG DRGAIALAEA LKVNQILENL DLQSNSISDM GVTVLMRALC SNQTLSSLNL  
RENSISPEGA QALTQALCRN NTLKHLDLTA NLLHDRGAQA IAVAVGENHS LTHLHLQWNF  
IQAGAARALG QALQLNRTLT TLDLQENAIG DEGASSVAGA LKVNTTLIAL YLQVASIGSQ  
GAQALGEALT VNRTLEILDG RGNDVGAAGA KALANALKLN SSLRRLNLQE NSLGMDGAIF  
VASALSENHG LHHINLQGNP IGESAARMIS EAIKTNAPTC TVEI

**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 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.

## Product Details

- 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:	NLRC3
Alternative Name:	Nlr3 ( <a href="#">NLRC3 Products</a> )
Background:	<p>Protein NLRC3,FUNCTION: Negative regulator of the innate immune response. Attenuates signaling pathways activated by Toll-like receptors (TLRs) and the DNA sensor STING/TMEM173 in response to pathogen-associated molecular patterns, such as intracellular poly(dA:dT), but not poly(I:C), or in response to DNA virus infection, including that of Herpes simplex virus 1 (HSV1) (PubMed:22863753, PubMed:24560620). May affect TLR4 signaling by acting at the level of TRAF6 ubiquitination, decreasing the activating 'Lys-63'-linked ubiquitination and leaving unchanged the degradative 'Lys-48'-linked ubiquitination (PubMed:22863753). Inhibits the PI3K-AKT-mTOR pathway possibly by directly interacting with the phosphatidylinositol 3-kinase regulatory subunit p85 (PIK3R1/PIK3R2) and disrupting the association between PIK3R1/PIK3R2 and the catalytic subunit p110 (PIK3CA/PIK3CB/PIK3CD) and reducing PIK3R1/PIK3R2 activation. Via its regulation of the PI3K-AKT-mTOR pathway, controls cell proliferation, predominantly in intestinal epithelial cells (PubMed:27951586). May also affect NOD1- or NOD2-mediated NF-kappa-B activation (By similarity). Might also affect the inflammatory response by preventing NLRP3 inflammasome formation, CASP1 cleavage and IL1B maturation (By similarity). {ECO:0000250 UniProtKB:Q7RTR2, ECO:0000269 PubMed:22863753, ECO:0000269 PubMed:24560620, ECO:0000269 PubMed:27951586}.</p>
Molecular Weight:	116.0 kDa
UniProt:	<a href="#">Q5DU56</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:** 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!

**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