

Datasheet for ABIN3135679

## NLRP14 Protein (AA 1-993) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	NLRP14
Protein Characteristics:	AA 1-993
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NLRP14 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKTEDDEMEY EASKEETVSE DKDFDDGIDY RTVIKENIFT MWYKTS LHGE FATLNCVITP</p> <p>KDQNLLQHIF DEDIQTSEAP QTVVLQGAAG IGKTTLLKKA VLEWADGNLY QQFTHVFYLN</p> <p>GKEISQVKEK SFAQLISKHW PSSEGPQEV LSKPSSLLFI IDSFDELDFS FEPPQFALCK</p> <p>DWTQISPVSF LISSLLRKVM LPESYLLVAT RSTAWKRLVP LLQKPQRVKL SGLSKNARMD</p> <p>YIHLLKDKA WATSAIYSLR MNWRLFHMCH VCHMCQMICA VLKGQVEKGG RVEETCKTST</p> <p>ALFTYYICSL FPRIPVGCVT LPNETLLRSL CKAAVEGIWT MKHVLYQQNL RKHELTREDI</p> <p>LLFLDAKVLQ QDTEYENCYM FTHLHVQEFF AALFYLLREN LEEQDYPSEP FENLYLLLES</p> <p>NHIHDPHLEQ MKCFLFGLLN KDRVRQLEET FNLTISMEVR EELLACLEGL EKDDSSLSQL</p> <p>RFQDLLHCIY ETQDQEFITQ ALMYFQKIIV RVDEEPLRI YSFCLKHCHT LKTMRLTARA</p> <p>DLKNMLDTAE MCLEGAQVQV IHYWQDLFSV LHTNESLIEM DLYESRLDES LMKILNEELS</p> <p>HPKCKLQKLI FRAVDFLNGC QDFTFLASNK KVTHLDLKET DLGVNGLKTL CEALKCKGCK</p>

LRVLRLASCD LNVARCQKLS NALQTNRSVL FLNLSLNNLS NDGVKSLCEV LENPNSSLER  
LALASCGLTK AGCKVLSSAL TSKRRLTHLC LSDNVLEDEG IKLLSHTLKH PQCTLQSLVL  
RSCSFTPIGS EHLSTALLHN RSLVHLDLGQ NKLADNGVKL LCHSLQQPHC NLQEELMSC  
VLTSKACGDL ASVLVNNSNL WSLDLGHNIL DDAGLNILCD ALRNPNCVHVQ RLGLENCGLT  
PGCCQDLLGI LSNNKSVIQM NLMKNALDHE SIKNLCKVLR SPTCKMEFLA LDKKEILKKK  
IKKFLVDVRI NNPHLVIGPE CPNTESGCWW NYF

**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.
- 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: NLRP14

Alternative Name: Nlrp14 ([NLRP14 Products](#))

Background: NACHT, LRR and PYD domains-containing protein 14 (NALP-iota) (Germ cell specific leucine-rich repeat NTPase),FUNCTION: May be involved in inflammation and spermatogenesis. {ECO:0000250}.

Molecular Weight: 113.4 kDa

UniProt: [Q6B966](#)

Pathways: [Inflammasome](#)

## 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!

Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months