Datasheet for ABIN3135620

# Nlrp4f Protein (AA 1-959) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | Nlrp4f (NLRP4F) |
| Protein Characteristics: | AA 1-959 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Nlrp4f protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MASFISDFGL IWYLRELNKK EFMKFKDFLI QEILELKLKQ VSSTKVKKAS REDLANLLLK CGENQAWDMT FRILQKINRK DLTERATGAI VGNPNLYRDH LKKKLTHDCP KKFNVRIQDF IKETFIQNDX DAFENLLISK GTERKPHMVF LKGMAGVGKT LMLKNLMLAW SKGLVFQNKF SYAFYFCCQD VKQLKTASLA ELISREWPSP SAPIEEILSQ PEKLLFIIDS LEGMEWDLTK QESELCDDCM EKQPVSTLLS SLLRRKMLPE SSLLLSTTPE TFEKMEDRIQ CTDVKTATAF DERSMKIYFH RLFQDRKRAQ EAFSLVRENK QLFTICQVPL LCWMVATCLK EEIEKGGDPV SLCRRTTSLY TTHIFSLFIP QSAQYPSKKS QDQLQGLCSL AAEGMWTDTF VFGKEALRRN GIFDSDIPTL LDIGMLGKIR EFENSYIFLH PSVQEVCAAI FYMLKRHVEH PSQDVKNIET VLFMFLKKVK TQWIFLGCFI FGLLQKSEQE KLGVFFGHRL SKNIHHKLYQ CLETLSGNAE LQEQIDGMRL FSCLFEMEDE AFLVKAMNCM QQINFVAKNY SDFIVAAYCL KHCSTLKKLS FSTENVLNEG DQSYMEELLI CWNNMCSVFV RSKDIQELRI KDTNFNEPAI RVLYESLKYP |

SFTLNKLVAN NVSFGDNHVL FELIQNSSLQ YLDLSCSFLS HNEVKLLCDI LNQAECNIEK LMIAHCKLSP DDCKIFGSIL MSSKSLKVLN LASNNLNQGI SSLCKALCHP HCTLEYLVPR SNHCIVNFLL KLSCCGITER GCQDLAEVLK NNQNLKYLHV SYNKLKDTGV MLLCDAIKHP NCHLKDLQLE ACEITDASNE ELCYAFMQCE TLQTLNLMGN AFEVSRMVFF PRKSELMLFI FLHLSRLWIT DFDNEFQAFL LSVKKKNHFL TIRGSVEADG EKKGGDSDAR TMGELSNEI

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

## Product Details

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| 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

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| Target: | Nlrp4f (NLRP4F) |
| Alternative Name: | Nlrp4f |
| Background: | NACHT, LRR and PYD domains-containing protein 4F (NALP-kappa),FUNCTION: Required for cytoplasmic lattice formation, thereby modulates the distribution of organelles during oocyte maturation and zygote development (PubMed:31575650). Required for preimplantation development in female fertility (PubMed:31575650). May be involved in inflammation and recognition of cytosolic pathogen-associated molecular patterns (PAMPs) not intercepted by membrane-bound receptors (By similarity). {ECO:0000250\|UniProtKB:Q96MN2, ECO:0000269\|PubMed:31575650}. |
| Molecular Weight: | 110.4 kDa |
| UniProt: | Q66X05 |

## 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 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.<br>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 |

## Application Details

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| | 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.<br>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 |