

Datasheet for ABIN3135259

RNF123 Protein (AA 2-1314) (His tag)[Go to Product page](#)**1** Image

Overview

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|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | RNF123 |
| Protein Characteristics: | AA 2-1314 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RNF123 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

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| Sequence: | ASKGTGMSFS RKSRYLTSDA EKSRVTGIVQ EKLLSDYLYR IFSPDRGPA AATSRKPLNF HNLPEHVDQL LQVDSSEDNES QGQVEGRLGP STVVDHTGG FEGLLLVDDD LLGVIGHSNF GTIRSTTCVY KGKWVYEVLI SSQGLMQIGW CTINCRFNQE EGVGDTHNSY AYDGNRVRKW NVTTTNYGKA WAAGDIVSCL IDLDDGTLSE CLNGVSLGTA FENLSRGLGM AYFPAISLSF KESVAFNFGS RPLRYPVAGF RPLQDPPFAD LVRAQRLLGC FQAVLSVELD PVEGRLVETE SSEWQLQGQP TVLLTLAHIF HHFAPLLRKV YLVEAVLMSF LLGVVEKGTP EQAQSVVHQI LDLLWLFMED YEVQDCLKQL MMSLLRLYRF SPIVPDLGLQ IHYLRLTMSI LRHEKSRKFL LSNVLFDMLR SVVFFYIKSP LRVEEAGLKE LIPTTWWPHR SSRESRDGKE AREETTEERQ RRRAYERGQC RLKKRIEVE ELQVQILKLL LDNKDDNGGE ASRYIFLTKF RKFLQENASG RGNTPVLCPP EYMCVFLHRL VSALRFYWDE YKASNPRASF SEEAYIPPQI FYNGKVDYFD LQRLGGLLSH LRKTLKDDLA SKANIVIDPL ELQAATMDDL DEDEEPAPSA AQRPMQALAI GGALPLPRPG WLSSPTLGRA NRFLSTAASV LMTPRRLST MEKVKVRS LN VEQRTREDIE |
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GSWNEGLLL GRPPEEQP LTENSLLEVL DGTVMYNNLS VHQQLGKMGV VSDDVNEYAM
ALRDTEDKLR RCPKRRKDIL AELTKSQKVF SEKLDHLSRR LAWVHATVYS QEKMLDIYWL
LRVCLRTIEH GDRTGSLFAF MPEFYLSVAI NSYSALKNYF GPVHSMEELP GYEETLTRLA
AILAKHFADP RIVGTDIRDS LMQALASYVC YPHSLRAVER IPPEQRIAMV RNLLAPYEQR
PWAQTNWILV RLWRGCGFGY RYTRLPHLLK TKPEDANLPS LQKPCPSTLL QQHMADLLRQ
GSDVAPSFLN SVLNQLNWAF SEFIGMIQEI QQAAERLERN FVDSRQLKVC ATCFDLSVSL
LRVLEMTITL VPEIFLDWSR PTSEMLLRRL AQLLNQVLNR VTAERNLFDR VVTLRLPGLE
SVDHYPILVA VTGILVRLLV HGPTSETEQA TSVLLADPCF QLRICYLLG QPEPLAPGTT
LPAPDRKRFS LQSYTDYISA EELAQVEQML AHLTAASAQA AAASLPTNEE DLCPICYAHP
ISAVFQPCGH KSCKACINQH LMNNKDCFFC KATIVSVEDW DKAANTSAMS SAA

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rnf123 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

Target Details

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| Target: | RNF123 |
| Alternative Name: | Rnf123 (RNF123 Products) |
| Background: | Catalytic subunit of the KPC complex that acts as E3 ubiquitin-protein ligase. Required for poly-ubiquitination and proteasome-mediated degradation of CDKN1B during G1 phase of the cell cycle (By similarity). {ECO:0000250}. |
| Molecular Weight: | 149.5 kDa Including tag. |
| UniProt: | Q5XPI3 |

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: | Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
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Handling

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| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process