Datasheet for ABIN3136217

# PHF20 Protein (AA 1-1010) (His tag)

1 Image

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## Overview

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|---|---|
| Quantity: | 1 mg |
| Target: | PHF20 |
| Protein Characteristics: | AA 1-1010 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PHF20 protein is labelled with His tag. |
| Application: | Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Sequence: | MTKHPPNRRG ISFEVGAQLE ARDRLKNWYP AHIEDIDYEE GRVLIHFKRW NHRYDEWFCW DSPYLRPLEK IQLRKEGLHD EDGSSEFQIN QQVLACWSDC RFYPARVTAV NKDGTYTVKF YDGVVQTVKH IHVKAFSKDQ NIVGNARPKE TDHKSLSSSP EKREKFKEQR KVTVNVKKDK VEKALKTEKR PKQPDKEGKL ICSEKGKVSE KSLPKNEKED KENISENERE YSGDAQVEKK PEKDLVKNPQ ENLKEPKRKR GRPPSITPTA VDSNSQTLQP ITLELRRRKI SKRSDTPLKR PRLDKNSPQE QSKKRSENSD KDLSRRRSSR LSTNGTREIL DPDSIVPDLV HTVDTNPLPD KSPSAKDSAE GQLKSPLEAG QVSSALTCHP IGDGLGAADL ELNCKSMGEN TMKTEPVSPL AEVQEVSTVE VPNTLKKVDD SVTLNVPAVD LDHKFRCKVL DCLKFFRKAK LLHYHMKYFH GMEKSPEPEE GPGKTHVQTR GSAVPDKTSQ ESLTRKRVSA SSPTAKEKEK TKEKKFKELV RVKPKKKKKK KKKTKPECPC SEDISDTSQE PSPPKTFAVT RCGSSHKPGV HMSPQLHGSD NGNHKGKLKT CEEDNLSESS SESFLWSDEE YGQDVDVTTN PDEELEGDDR YDFEVVRCIC EVQEENDFMI QCEECQCWQH GVCMGLLEEN VPEKYTCYVC QDPPGQRPGF KYWYDKEWLS |

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| | RGHMHGLAFL DQNYSHQNAR KIVATHQLLG DVQRVIQVLH GLQLKMSILQ SREHPDLQLW CQPWKQHSGE GRAHPRHIHI TDARSEESPS YRTLNGAVEK PSPLPRSVEE SYITSEHCYQ KPRAYYPAVE QRLVVETRGS ALDAAVSPLC ENGDDSLSPR LGWPIDQDRS RGDIDPKPSS PKVREYISKN VLPEETPARK LLDRGGEGLV SSQHQWQFNL LTHVESLQDE VTHRMDSIEK ELDVLESWLD YTGELEPPEP LARLPQLKHC IKQLLTDLGK VQQIALCCST<br>**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.<br>• Mouse Phf20 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br>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).<br>When you order this made-to-order protein you will only pay upon receival 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.<br>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.<br>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:<br>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.<br>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. |

## Product Details

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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: | PHF20 |
| Alternative Name: | Phf20 (PHF20 Products) |
| Background: | Contributes to methyllysine-dependent p53/TP53 stabilization and up-regulation after DNA damage (By similarity). Methyllysine-binding protein, component of the MOF histone acetyltransferase protein complex. Not required for maintaining the global histone H4 'Lys-16' acetylation (H4K16ac) levels or locus specific histone acetylation, but instead works downstream in transcriptional regulation of MOF target genes. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. {ECO:0000250, ECO:0000269\|PubMed:22072714}. |
| Molecular Weight: | 116.2 kDa Including tag. |
| UniProt: | Q8BLG0 |

## 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 gurantee 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 |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |

## Handling

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| 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