

Datasheet for ABIN3135221 PHF12 Protein (AA 1-1003) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PHF12
Protein Characteristics:	AA 1-1003
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF12 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MWEKMETKTI VYDLDTSGGL MEQIQALLAP PKTDEAEKRS RKPEKESRRS GRATNHDSCD
	SCKEGGDLLC CDHCPAAFHL QCCNPPLSEE MLPPGEWMCH RCTVRRKKRE QKKELGHVNG
	LVDKSSKRTT SPSSDTDLLD RPASKTELKA IAHARILERR ASRPGTPTSN ASTETPTSEH
	NDVDEDIVDV DEEPVAAEPD YVQPQLRRPF ELLIAAAMER NPTQFQLPNE LTCTTALPGS
	SKRRRKEETT GKNVKRTQHE LDHNGLVPLP VKVCFTCNRS CRVAPLIQCD YCPLLFHMDC
	LEPPLTAMPL GRWMCPNHIE HVVLNQKNLT LSNRCQVFDR FQDTISQHVV KVDFLNRIHK
	KHPPNRRVLQ SVKRRSLKVP DAIKSQYQFP PPLIAPAAIR DGELICSGVP EESQTHLLNS
	EHLATQAEQQ EWLCSVVALQ CSILKHLSAK QMPSPWDSEQ TEKADIKPVI VTDSSITTSL
	QTADKAPLPS HYPLSCPSAV STQNSLGCSP PHQPPTLEDI SCSSCVEKSK KAPCGTANGP
	VNTEIKANGP HLYSSPTDST DPRRLPGANT PLPGLTHRQG WPRPLTPPSA GGLQNHVGII
	VKTENATGPS SCPQRSLVPV PSLPPSIPSS CASIENTSTL HRKTVQSQIG PSSTESRPLG

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3135221 | 02/25/2025 | Copyright antibodies-online. All rights reserved. SPPNATRVLT PPQAAGDSIL ATGANQRFCS PAPSSDGKVS PGTLSIGSAL TVPSFPANST AMVDLTNSLR AFMDVNGEIE INMLDEKLIK FLALQRVHQL FPSRVQASPG NVGTHPLASG GHHPEVQRKE VQARAVFCPL LGLGGAVNMC YRTLYIGTGA DMDVCLTNYG HCNYVSGKHA CIFYDENTKH YELLNYSEHG TTVDNVLYSC DFSEKTPPTP PSSIVAKVQS VIRRRRHQKQ DEEPSEEAAM MSSQAQGPQR RPCNCKASSS SLIGGSGAGW EGTALLHHGS YIKLGCLQFV FSITEFATKQ PKGDASLLQD GVLAEKLSLK PHQGPVLRSN SVP

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.

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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

Target:	PHF12
Alternative Name:	Phf12 (PHF12 Products)
Background:	PHD finger protein 12 (PHD factor 1) (Pf1),FUNCTION: Transcriptional repressor acting as key scaffolding subunit of SIN3 complexes which contributes to complex assembly by contacting each core subunit domain, stabilizes the complex and constitutes the substrate receptor by recruiting the H3 histone tail. SIN3 complexes are composed of a SIN3 scaffold subunit, one catalytic core (HDAC1 or HDAC2) and 2 chromatin targeting modules. SIN3B complex represses transcription and counteracts the histone acetyltransferase activity of EP300 through the recognition H3K27ac marks by PHF12 and the activity of the histone deacetylase HDAC2. SIN3B complex is recruited downstream of the constitutively active genes transcriptional start sites through interaction with histones and mitigates histone acetylation and RNA polymerase II progression within transcribed regions contributing to the regulation of transcription. May also repress transcription in a SIN3A-independent manner through recruitment of functional TLE5 complexes to DNA (By similarity). May also play a role in ribosomal biogenesis (PubMed:27956701). {ECO:000250 UniProtKB:Q96QT6, ECO:000269 PubMed:27956701}.
Molecular Weight:	109.5 kDa
UniProt:	Q5SPL2
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

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	even the most difficult-to-express proteins, including those that require post-translational
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	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