

## Datasheet for ABIN3094574 PHF1 Protein (AA 1-567) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PHF1
Protein Characteristics:	AA 1-567
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MAQPPRLSRS GASSLWDPAS PAPTSGPRPR LWEGQDVLAR WTDGLLYLGT IKKVDSAREV
	CLVQFEDDSQ FLVLWKDISP AALPGEELLC CVCRSETVVP GNRLVSCEKC RHAYHQDCHV
	PRAPAPGEGE GTSWVCRQCV FAIATKRGGA LKKGPYARAM LGMKLSLPYG LKGLDWDAGH
	LSNRQQSYCY CGGPGEWNLK MLQCRSCLQW FHEACTQCLS KPLLYGDRFY EFECCVCRGG
	PEKVRRLQLR WVDVAHLVLY HLSVCCKKKY FDFDREILPF TSENWDSLLL GELSDTPKGE
	RSSRLLSALN SHKDRFISGR EIKKRKCLFG LHARMPPPVE PPTGDGALTS FPSGQGPGGG
	VSRPLGKRRR PEPEPLRRRQ KGKVEELGPP SAVRNQPEPQ EQRERAHLQR ALQASVSPPS
	PSPNQSYQGS SGYNFRPTDA RCLPSSPIRM FASFHPSAST AGTSGDSGPP DRSPLELHIG
	FPTDIPKSAP HSMTASSSSV SSPSPGLPRR SAPPSPLCRS LSPGTGGGVR GGVGYLSRGD
	PVRVLARRVR PDGSVQYLVE WGGGGIF
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In case yo
	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALICE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>During lysate production, the cell wall and other cellular components that are not required fo 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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Grade:

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custom-made

Target:	PHF1
Alternative Name:	PHF1 (PHF1 Products)
Background:	PHD finger protein 1 (Protein PHF1) (hPHF1) (Polycomb-like protein 1) (hPCl1),FUNCTION:
	Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3)
	and recruits the PRC2 complex. Involved in DNA damage response and is recruited at double-
	strand breaks (DSBs). Acts by binding to H3K36me3, a mark for transcriptional activation, and
	recruiting the PRC2 complex: it is however unclear whether recruitment of the PRC2 complex to
	H3K36me3 leads to enhance or inhibit H3K27me3 methylation mediated by the PRC2 complex
	According to some reports, PRC2 recruitment by PHF1 promotes H3K27me3 and subsequent
	gene silencing by inducing spreading of PRC2 and H3K27me3 into H3K36me3 loci
	(PubMed:18285464, PubMed:23273982). According to another report, PHF1 recruits the PRC2
	complex at double-strand breaks (DSBs) and inhibits the activity of PRC2 (PubMed:23142980).
	Regulates p53/TP53 stability and prolonges its turnover: may act by specifically binding to a
	methylated from of p53/TP53. {ECO:0000269 PubMed:18086877,
	ECO:0000269 PubMed:18285464, ECO:0000269 PubMed:18385154,
	ECO:0000269 PubMed:23142980, ECO:0000269 PubMed:23150668,
	EC0:0000269 PubMed:23273982}.
Molecular Weight:	62.1 kDa
UniProt:	043189
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:	
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Application Details	
	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 <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