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Datasheet for ABIN3094756  
**PPHLN1 Protein (AA 1-458) (Strep Tag)**

Overview

Quantity:	1 mg
Target:	PPHLN1
Protein Characteristics:	AA 1-458
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPHLN1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MWSEGRYEYE RIPRERAPPR SHPSDGYNRL VNIVPKKPPL LDRPGEGSYN RYSSHVDYRD  
YDEGRSFSHD RRSRGGPPHRGD ESGYRWTRDD HSASRQPEYR DMRDGFRRKS FYSSHYARER  
SPYKRDNTFF RESPVGRKDS PHSRSGSSVS SRSYSPERSK SYSFHQSQHR KSVRPGASYK  
RQNEGNPERD KERPVSQSLKT SRDTSPSSGS AVSSSKVLDK PSRLTEKELA EAASKWAAEK  
LEKSDESNLP EISEYEAGST APLFTDQPEE PESNTTHGIE LFEDSQLTTR SKAIASKTKE  
IEQVYRQDCE TFGMVVKMLI EKDPSLEKSI QFALRQNLHE IESAGQWVQQ VPPVRNTEMD  
HDGTPENEGE ETAQSAPQPP QAPQPLQPRK KRVRRRTQLR RTTGAPDITW GMLKKTQEA  
ERILLRTQTP FTPENLFLAM LSVVHCNSRK DVKPENKQ

**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:
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- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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#### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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

## Product Details

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Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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Target: PPHLN1

Alternative Name: PPHLN1 ([PPHLN1 Products](#))

Background: Periphilin-1 (CDC7 expression repressor) (CR) (Gastric cancer antigen Ga50),FUNCTION: Component of the HUSH complex, a multiprotein complex that mediates epigenetic repression. The HUSH complex is recruited to genomic loci rich in H3K9me3 and is probably required to maintain transcriptional silencing by promoting recruitment of SETDB1, a histone methyltransferase that mediates further deposition of H3K9me3. In the HUSH complex, contributes to the maintenance of the complex at chromatin (PubMed:26022416). Acts as a transcriptional corepressor and regulates the cell cycle, probably via the HUSH complex (PubMed:15474462, PubMed:17963697). The HUSH complex is also involved in the silencing of unintegrated retroviral DNA: some part of the retroviral DNA formed immediately after infection remains unintegrated in the host genome and is transcriptionally repressed (PubMed:30487602). May be involved in epithelial differentiation by contributing to epidermal integrity and barrier formation (PubMed:12853457). {ECO:0000269|PubMed:15474462, ECO:0000269|PubMed:17963697, ECO:0000269|PubMed:26022416, ECO:0000269|PubMed:30487602, ECO:0000305|PubMed:12853457}.

Molecular Weight: 52.7 kDa

UniProt: [Q8NEY8](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)