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Datasheet for ABIN3094575

## PHLDB1 Protein (AA 1-1377) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	PHLDB1
Protein Characteristics:	AA 1-1377
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHLDB1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MDALNRNQIG PGCQTQTMVQ KGPLDLIETG KGLKVQTDKP HLVSLSGSGRL STAITLLPLE  
 EGRTVIGSAA RDISLQGPGL APEHCYIENL RGTLTLYPCG NACTIDGLPV RQPTRLTQGC  
 MLCLGQSTFL RFNHPAEAKW MKSMIPAGGR APGPPYSPVP AESESLVNGN HTPQTATRGP  
 SACASHSSLV SSIEKDLQEI MDSLVLLEPG AAGKKPAATS PLSPMANGGR YLLSPPTSPG  
 AMSVGSSYEN TSPAFSPLSS PASSGSCASH SPSGQEPGGS VPPLVPARSS SYHLALQPPQ  
 SRPSGARSES PRLSRKGGHE RPPSPGLRGL LTDSPAATVL AEARRATESP RLGGLPVVA  
 ISLSEYPASG ALSQPTSIPG SPKFQPPVPA PRNKIGTLQD RPPSPFREPP GSERVLTTSP  
 SRQLVGRTFS DGLATRTLQP PESPRLGRRG LDSMRELPLP SPPLSRRALS PLPTRTTDP  
 KLNREVAESP RPRRWAHGA SPEDFSLTLG ARGRRTRSPS PTLGESLAPH KGSFSGRLSP  
 AYSLGSLTGA SPCQSPCVQR KLSSGDLRVP VTRERKNSIT EISDNEDDLL EYHRRQRQER  
 LREQEMERLE RQRLETILNL CAEYSRADGG PEAGELPSIG EATAALALAG RRPSRGLAGA  
 SGRSSEEPGV ATQRLWESME RSDEENLKEE CSSTESTQQE HEDAPSTKLQ GEVLALEEER

AQVLGHVEQL KVRVKELEQQ LQESAREAEM ERALLQGERE AERALLQKEQ KAVDQLQEKL  
VALETGIQKE RDKEAEALET ETKLFEDLEF QQLERESRVE EERELAGQGL LRSKAELLRS  
IAKRKERLAI LDSQAGQIRA QAVQESERLA RDKNASLQLL QKEKEKLTVL ERRYHSLTGG  
RPFPKTTSTL KEMEKLLLPV VDLEQWYQEL MAGLGTGPAA ASPHSSPPPL PAKASRQLQV  
YRSKMDGEAT SPLPRTRSGP LPSSSGSSSS SSQLSVATLG RSPSPKSALL TQNGTGSLPR  
NLAATLQDIE TKRQLALQKQ GQQVIEEQRR RLAELKQKAA AEAQCQWDAL HGAAPFPAGP  
SGFPPLMHHS ILHHLPA GRE RGEEGEHAYD TLSLESSDSM ETSISTGGNS ACSPDNMSSA  
SGLDMGKIEE MEKMLKEAHA EKNRLMESRE REMELRRQAL EEERRRREQV ERRLQSESAR  
RQQLVEKEVK MREKQFSQAR PLTRYLPYRK EDFDLKTHIE SSGHGVDTCL HVLSSKVCV  
GYLVKMGGKI KSWKKRWFVF DRLKRTLSYY VDKHETKLLG VIYFQAIIEV YYDHLRSAAK  
KRFFRFTMVT ESPNPALTFC VKTHDRLYYM VAPSAEAMRI WMDVIVTGAE GYTQFMN

**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.**

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### Characteristics:

#### Key Benefits:

- 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

## Product Details

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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®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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)
Grade:	Crystallography grade

## Target Details

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Target:	PHLDB1
Alternative Name:	PHLDB1 ( <a href="#">PHLDB1 Products</a> )
Background:	Pleckstrin homology-like domain family B member 1 (Protein LL5-alpha)
Molecular Weight:	151.2 kDa
UniProt:	<a href="#">Q86UU1</a>

## 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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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## Application Details

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*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!

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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)

## Images

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