

Datasheet for ABIN3094698

## PLEKHH2 Protein (AA 1-1493) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	PLEKHH2
Protein Characteristics:	AA 1-1493
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHH2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MAELSEPEGP VDWKERCVAL ESQLMKFRVQ ASKIRELLAE KMQQLERQVI DAERQAEKAF  
QQVQVMEDKL KAANIQTSES ETRLYNKCQD LESLIQEKDD VIQNLELQLE EQKQIRIQEA  
KIIIEKAAKI KEWVTVKLNE LELENQNLRL INQNQTEEIR TMQSKLQEVQ GKKSSTVSTL  
KLSEGRQLSS LTFGCFLSRA RSPQVVKSE EMSKISSKEP EFTEGKDMEE MEIPEKSVDN  
QVLENNRGQR TLHQTPCGSE QNRKTRTSFA TDGGISQNSG APVSDWSSDE EDGSKGRSKS  
RCTSTLSSHT SEEGVQCSRM GSEMYLTASD DSSSIFEEET FGIRPEHKK LYSWQQEAQW  
KALNSPLGKG NSELKKEQD SSSDELNKKF QSQRLDYSSS SSEANTPSPI LTPALMPKHP  
NSLSGKGTQL VPSSHLPPP L RIPNVFSIS VALAKRHLSQ PQLSSDRMFG TNRNAISMIR  
PLRPQETDLD LVDGDSTEV L ENMDTSCDDG LFSYDSLDS P NSDDQEHCD S AKKVAYS KPP  
TPPLHRFPSW ESRIYAVAKS GIRMSEAFNM ESVNKNSAAT LSYTTSGLYT SLIYKNM TTP  
VYTTLKGKAT QISSPFLDD SSGSEEDSS RSSRTSESD SRSRSGPGSP RAMKRGVLSL  
SVASESDYAI PPDAYSTDTE YSQPEQKLPK TCSSSDNGK NEPLEKSGYL LKMSGKVKSW

KRRWFVLKGG ELLYYKSPSD VIRKPQGHIE LSASCSILRG DNKQTVQLTT EKHTYYLTAD  
SPNILEEWIK VLQNVLRVQA ANPLSLQPEG KPTMKGLLTK VKHGYSKRVW CTLIGKTLYY  
FRSQEDKFPL GQIKLWEAKV EEVDRSCDSD EDYEASGRSL LSTHYTIVIH PKDQGPTYLL  
IGSKHEKDTW LYHLTVAAGS NNVNVGSEFE QLVCKLLNID GEPSSQIWRH PTLCHSKEGI  
ISPLTTLPSE ALQTEAIKLF KTCQLFINAA VDSPAIDYHI SLAQSAQC LTHPELQNEI CCQLIKQTRR  
RQPQNQPGPL QGWQLLALCV GLFLPHHPFL WLLRLHLKRN ADSRTEFGKY AIYCQRCVER  
TQQNGDREAR PSRMEILSTL LRNPYHHSPL FSIPVHFMNG IYQVVGFDAS TTVEEFLNTL  
NQDTGMRKPA QSGFALFTDD PSGRDLEHCL QGNIKICDII SKWEQASKEQ QPGKCEGTRT  
VRLTYKNRLY FSVQARGETD REKLLLMYQT NDQIINGLFP LNKDLALEMA ALLSQVEIGD  
FERPFSTPAG HVTNQCKVNQ TLKQVIEKFY PKRYRDGCSE EQLRQLCQRL STRWMALRGH  
SAADCVRIYL TVARKWPFFG AKLFLAKPIT PSSLGSTFLW LAVHEDGLSL LEYNSMRLIV  
SYVYKSLMTF GGYQDDFMVV INNTHSKDKP TEKLLFAMAK PKILEITLLI ASYINNFHQQ  
KAAFHLSAP ALLSAQTRGP QARMMGSQPL LSSSRPTKGP TLL

**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

## Product Details

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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!

### 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:	PLEKHH2
Alternative Name:	PLEKHH2 ( <a href="#">PLEKHH2 Products</a> )
Background:	Pleckstrin homology domain-containing family H member 2,FUNCTION: In the kidney glomerulus may play a role in linking podocyte foot processes to the glomerular basement membrane. May be involved in stabilization of F-actin by attenuating its depolymerization. Can recruit TGFB111 from focal adhesions to podocyte lamellipodia.
Molecular Weight:	168.2 kDa
UniProt:	<a href="#">Q8IVE3</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.

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**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 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

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## Handling

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**Format:** Liquid

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

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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