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Datasheet for ABIN3094636

**PKD1L2 Protein (AA 18-1344) (His tag)**

## Overview

Quantity:	1 mg
Target:	PKD1L2
Protein Characteristics:	AA 18-1344
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKD1L2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence: TTVKPEEGSF CSNSQVAFRD ACYEFVPLGR TFRDAQSWCE GQGGHLVFIQ DEGTQWFLQK  
HISQDREWWI GLTWNLARNG TTEGPGTWLD TSNVTYSNWH GGQAAAAPDT CGHIGRGPSS  
EWTSDCAQT FAFMCEFRVG QSLACEGLNA TVHCGLGQVI QVQDAVYGRQ NPHFCTQDAG  
RPSDLEQGCS WANVKEEVAG QCQELQSCQV AADETYFGNL CPTQGSYLWV QYQCREALQL  
MVSSSEFIFD NVTISLTWLL SPYIGNLSCI ISTGDSHTFD PYNPPSVSSN VTHQFTSPGE  
FTVFAECTTS EWHVTAQRQV TVRDKMETLS VTACSGLSQS GAGPLCQAVF GDPLWIQVEL  
DGGTGVTYTV LLGDITLAES TTQKGS LPYN LILDRETQKL MGPGRHRLEI QATGNTTST  
ISRNITVHLV ELLSGLQASW ASDHLELGQD LLITISLAQG TPEELTFEVA GLNATFSHEQ  
VSFGEPFGIC RLAVPVEGTF LVTMLVRNAF SNLSLEIGNI TITAPSGLQE PSGMNAEGKS  
KDKGDMEVYI QPGPYVDPFT TVTLGWPDND KELRFQWSCG SCWALWSSCV ERQLLRDQR  
ELVVPASCLP PPDSAVTLRL AVLRGQELEN RAEQCLYVSA PWELRPRVSC ERNCRPVNAS  
KDILLRVTMG EDSPVAMFSW YLDNTPTEQA EPLLDACRLR GFWPRSLTLL QSNTSTLLLN

SSFLQSRGEV IRIRATALTR HAYGEDTYVI STVPPREVPA CTIAPEEGTV LTSFAIFCNA  
STALGPLEFC FCLESGSCLH CGPEPALPSV YLPLGEEENND FVLTVVISAT NRAGDTQQTQ  
AMAKVALGDT CVEDVAFQAA VSEKIPTALQ GEGGPEQLLQ LAKAVSSMLN QEHESQSGSQ  
SLSIDVRQKV REHVLGSLSA VTTGLEDVQR VQELAEVLRE VTCRSKELTP SAQWEASLAL  
QHASEALLTV SAKARPEDQR RQAATRDLFQ AVGSVLEASL SNRPEEPAEA SSSQIATVLR  
LLRVMEHVQT TLLLGKLPGG LPAMLATPSI SVYTNRIQPW SWQGSSLRPD AADSATFMLP  
AASSLSSLEG GQEPVDIKIM SFPKSPFPAR SHFDVSGTVG GLRVTSPSGQ LIPVKNLSEN  
IEILLPRHSQ RHSQPTVLNL TSPEALWVNV TSGEATLGIQ LHWRPDIALT LSLGYGYHPN  
KSSYDAQTHL VPMVAPDELP TWILSPQDLR FGEGVYYLTV VPESDLEPAP GRDLTVGITT  
FLSHCVFWE VQETWDDSGC QVGPRTSPYQ THCLCNHLTF FGSTFLVMSN AINIHTAEL  
FATFEDN

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PKD1L2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. 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 baculovirus infected SF9 insect cells:

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## Product Details

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1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

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Target: PKD1L2

Alternative Name: PKD1L2 ([PKD1L2 Products](#))

Background: May function as an ion-channel regulator. May function as a G-protein-coupled receptor. {ECO:0000269|PubMed:15203210}.

Molecular Weight: 145.9 kDa Including tag.

UniProt: [Q7Z442](#)

## 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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format: Liquid

## Handling

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Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)