

Datasheet for ABIN3094487

**PELP1 Protein (AA 2-1130) (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	PELP1
Protein Characteristics:	AA 2-1130
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PELP1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	AAAVLSGPSA GSAAGVPGGT GGLSAVSSGP RLRLLLLESV SGLLQPRTGS AVAPVHPPNR SAPHLPLGMC LLRLHGSVGG AQNLSALGAL VSLSNARLSS IKTRFEGLC LLSLLVGESPT ELFQQHCVSW LRSIQVLQT QDPPATMELA VAVLRDLLRY AAQLPALFRD ISMNHLPGLL TSLLGLRPEC EQSALEGMKA CMTYFPRACG SLKGKLASFF LSRVDALSPQ LQQLACECYS RLPSLGAGFS QGLKHTESWE QELHSLLASL HTLLGALYEG AETAPVQNEG PGVEMLLSSE DGDAHVLLQL RQRFSGGLARC LGLMLSSEFG APVSVPVQEI LDFICRTLSV SSKNISLHGD GPLRLLLPS IHLEALDLLS ALILACGSRL LRFGLIGRL LPQVLNSWSI GRDSLSPGQE RPYSTVRTKV YAILELWVQV CGASAGMLQG GASGEALLTH LLSDISPPAD ALKLRSPRGS PDGSLQTGKP SAPKKLKLDV GEAMAPPSHR KGDSNANS DV CAAALRGLSR TILMCGPLIK EETHRRLHDL VLPLVMGVQQ GEVLGSSPYT SSRCCRRELYC LLLALLLAPS PRCPPPLACA LQAFSLGQRE DSLEVSSFCS EALVTCAALT HPRVPPLQPM GPTCPTPAPV PPPEAPSPFR APPFHPPGPM PSVGSMPASG PMPSAGPMPS AGPVPSARPG PPTTANHLGL SVPGLVSVPP
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RLLPGENHR AGSNEDPILA PSGTPPTIP PDETFGGRVP RPAFVHYDKE EASDVEISLE  
SDSDDSVVIV PEGLPPLPPP PPSGATPPPI APTGPPTASP PVPAKEEPEE LPAAPGPLPP  
PPPPPPVPG PVTLPPLQLV PEGTPGGGGP PALEEDLTVI NINSSDEEEE EEEEEEEEE  
EEEEEEEDFE EEEEEEEYF EEEEEEEEF EEEFEEEGE LEEEEEEDE EEEEELEVE  
DLEFGTAGGE VEEGAPPPPT LPPALPPES PPKVQPEPEP EPGLLLEVEE PGTEERGAD  
TAPTLAPEAL PSQGEVEREG ESPAAGPPPQ ELVEEESAP PTLLEEETED GSDKVQPPPE  
TPAEEMETE TEAEALQEKE QDDTAAMLAD FIDCPPDDEK PPPPTEPDS

**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 PELP1 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:

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

## Product Details

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

Target:	PELP1
Alternative Name:	PELP1 ( <a href="#">PELP1 Products</a> )
Background:	<p>Coactivator of estrogen receptor-mediated transcription and a corepressor of other nuclear hormone receptors and sequence-specific transcription factors. Plays a role in estrogen receptor (ER) genomic activity when present in the nuclear compartment by activating the ER target genes in a hormonal stimulation dependent manner. Can facilitate ER non-genomic signaling via SRC and PI3K interaction in the cytosol. Plays a role in E2-mediated cell cycle progression by interacting with RB1. May have important functional implications in ER/growth factor cross-talk. Interacts with several growth factor signaling components including EGFR and HRS. Involved in nuclear receptor signaling via its interaction with AR and NR3C1. May promote tumorigenesis via its interaction with and modulation of several oncogenes including SRC, PI3K, STAT3 and EGFR. Plays a role in cancer cell metastasis via its ability to modulate E2-mediated cytoskeleton changes and cell migration via its interaction with SRC and PI3K. Functions as the key stabilizing component of the Five Friends of Methylated CHTOP (5FMC) complex, the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes.</p> <p>{ECO:0000269 PubMed:11481323, ECO:0000269 PubMed:12415108, ECO:0000269 PubMed:12682072, ECO:0000269 PubMed:14963108, ECO:0000269 PubMed:15374949, ECO:0000269 PubMed:15456770, ECO:0000269 PubMed:15579769, ECO:0000269 PubMed:15994929, ECO:0000269 PubMed:16140940, ECO:0000269 PubMed:16352611, ECO:0000269 PubMed:16574651, ECO:0000269 PubMed:22872859}.</p>
Molecular Weight:	120.5 kDa Including tag.
UniProt:	<a href="#">Q8IZL8</a>

## 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:	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

Format:	Liquid
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)

## Images



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