

## Datasheet for ABIN3135115 PRDM6 Protein (AA 1-596) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	PRDM6
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRDM6 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MLKPGDPGGS AFLKVDPAYL QHWQQLFPHG GGGGGPLKAS GAALALGAPQ PLQPPPPPPP  
 PPPERAEPPL DGLRPRPASL SSTPAPSSTS ASSASSCAAA AAAAALAGLS ALPVAQMPVF  
 APLAAAAVAA EPLPPKDLCL GASAGGPAK CGGGGGSVGD GRGVPRFRCS AEELDYLYG  
 QQRMEIPLN QHTSDPNNRC DMCADNRNGE CPMHGPLHSL RRLVGTSSAA AAAPPELPE  
 WLRDLPREVC LCTSTVPGLA YGICAAQRIQ QGTWIGPFQG VLLSPEKVQT GVRNTQHLW  
 EIYDQDGTQ HFIDGGEPSK SSWMRYIRCA RHCGEQNLTV VQYRSNIFYR ACIDIPRGTE  
 LLVWYNDSTY SFFGIPLQCI AQDENLNVPS TVMEAMCRQD ALQPFNKSSK LSPSGQQRSV  
 VFPQTCSRN FSLLDKSGPM EAGFNQINVK NQRVLASPTS TSQLHSEFSD WHLWKCGQCF  
 KTFTQRILLQ MHVCTQNPDR PYQCGHCSQS FSQPSELRNH VVTHSSDRPF KCGYCGRAFA  
 GATTLNNHIR THTGEKPFKC ERCERSFTQA TQLSRHQRMP NECKPITESP ESIEVD

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

## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Mouse Prdm6 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.

- 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 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:	PRDM6
Alternative Name:	Prdm6 ( <a href="#">PRDM6 Products</a> )
Background:	Putative histone methyltransferase that acts as a transcriptional repressor of smooth muscle gene expression. Promotes the transition from differentiated to proliferative smooth muscle by suppressing differentiation and maintaining the proliferative potential of vascular smooth muscle cells. Also plays a role in endothelial cells by inhibiting endothelial cell proliferation, survival and differentiation. It is unclear whether it has histone methyltransferase activity in vivo. According to PubMed:16537907, it does not act as a histone methyltransferase by itself and represses transcription by recruiting EHMT2/G9a. According to PubMed:17662997, it possesses histone methyltransferase activity when associated with other proteins and specifically methylates 'Lys-20' of histone H4 in vitro. 'Lys-20' methylation represents a specific tag for epigenetic transcriptional repression. {ECO:0000269 PubMed:16537907, ECO:0000269 PubMed:17662997}.
Molecular Weight:	65.5 kDa Including tag.
UniProt:	<a href="#">Q3UZD5</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</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:	Protein has not been tested for activity yet. 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.

## Handling

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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