

Datasheet for ABIN3093878

**MMS19 Protein (AA 2-1030) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	MMS19
Protein Characteristics:	AA 2-1030
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMS19 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	AAAAAVEAAA PMGALWGLVH DFVVGQQEGP ADQVAADVKS GNYTVLQVVE ALGSSLENPE PRTRARAIQL LSQVLLHCHT LLEKEVVHL ILFYENRLKD HHLVIPSVLQ GLKALSLCVA LPPGLAVSVL KAIFQEVHVQ SLPQVDRHTV YNIITNFMRT REEELKSLGA DFTFGFIQVM DGEKDPRNLL VAFRIVHDLI SRDYS LGPFV EELFEVTSCY FPIDFTPPPN DPHGIQREDL ILSLRAVLAS TPRFAEFLLP LLIEKVDSEV LSAKLDSLQT LNACCAVYGQ KELKDFLPSL WASIRREV FQ TASERVEAEG LAALHSLTAC LSRSVLRADA EDLLDSFLSN ILQDCRHHLC EPDMKLVWPS AKLLQAAAGA SARACDSVTS NVLPLLEQF HKHSQSSQRR TILEMLLGFL KLQKQWSYED KDQRPLNGFK DQLCSLVFMA LTDPSTQLQL VGIRTLTVLG AQPDLLSYED LELAVGHLYR LSFLKEDSQS CRVAALEASG TLAALYPVAF SSVLVPKLAELRVGESNLT NGDEPTQCSR HLCCLQALSA VSTHPSIVKE TLPLLLQHLW QVNRGNMVAQ SSDVIAVCQS LRQMAEKCQQ DPESCWYFHQ TAIPCLLALA VQASMPEKEP SVLRKVLLED EVLAAMVSVI GTATTHLSPE LAAQSVTHIV PLFLDGNVSF LPENSFPSRF QPFQDGSSGQ RRLIALLMAF
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VCSLPRNVEI PQLNQLMREL LELSCCHSCP FSSTAAAKCF AGLLNKHPAG QQLDEFLQLA  
VDKVEAGLGS GPCRSQAFTL LLWVTKALVL RYHPLSSCLT ARLMGLLSDP ELGPAAADGF  
SLLMSDCTDV LTRAGHAEVR IMFRQRFFTD NVPALVQGFH AAPQDVKPNY LKGLSHVLNR  
LPKPVLLPEL PTLLSLLLEA LSCPDCCVQL STLSCQLPLL LEAPQVMSLH VDTLVTKFLN  
LSSSPSMAVR IAAALQCMHAL TRLPTVLLP YKPQVIRALA KPLDDKKRLV RKEAVSARGE  
WFLLGSPGS

**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 MMS19 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 through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

## Product Details

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:	MMS19
Alternative Name:	MMS19 ( <a href="#">MMS19 Products</a> )
Background:	<p>Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into apoproteins specifically involved in DNA metabolism and genomic integrity. In the CIA complex, MMS19 acts as an adapter between early-acting CIA components and a subset of cellular target iron-sulfur proteins such as ERCC2/XPD, FANCI and RTEL1, thereby playing a key role in nucleotide excision repair (NER) and RNA polymerase II (POL II) transcription. As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD. Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIF-machinery. {ECO:0000269 PubMed:11071939, ECO:0000269 PubMed:11328871, ECO:0000269 PubMed:20797633, ECO:0000269 PubMed:22678361, ECO:0000269 PubMed:22678362}.</p>
Molecular Weight:	114.1 kDa Including tag.
UniProt:	<a href="#">Q96T76</a>
Pathways:	<a href="#">Nuclear Hormone Receptor Binding</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.

## Application Details

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