

Datasheet for ABIN3137229  
**AFF4 Protein (AA 1-1160) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	AFF4
Protein Characteristics:	AA 1-1160
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AFF4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MNREDRNVLK MKERERRNQE IQQGEDAFPP SSPLFAEPYK VTSKEDKLSS RIQSMLGNYD  
 EMKDYIGDRS IPKLVAIPKP AVPTTTDEKA NPNFFEQRHG GSHQSSKWTP VGPAPSTSQS  
 QKRSSALQSG HSSQRSGAGG SGASSSGQRH DRDSYSSSRK KGQHGESESK SRSSSPGKPO  
 AVSSLSSSHS RSHGNDHHSK EHQRSKSPRD PDANWDSPSR GPFSSGQHSS QSFPPSLMSK  
 SSSMLQKPTA YVRPMDGQES VEPKLSSEHY SSQSHGNSMT ELKPSSKAHL TKLKIPSRPL  
 DASVSGDVSC VDEILKEMTH SWPPPLTAIH TPCKTEPSKF PFPTKESQQS NFGPGEQKRY  
 STAKTSNGHQ SKSMLKDDLK LSSSESDGEG QDCDKTMPRS TPGSNSEPSH HNSEGADNSR  
 DDSSSHSGSE SSSGSDSESE SSSSDSEANE PSQSASPEPE PPPTNKWQLD NWLNKVNPHK  
 VSPASSVDSN IPSSQAYKKE GREQGTASNY TDPGGTKETS SATPGRDSTK IQKGSSEGRG  
 RQKSPAQSDS TTQRRTVGKK QPKKPEKSAA EEPGGLKIE SETPVDMAAS MPSSRHKAAT  
 KGSRKPNIKK ESKSSPRPTA EKKKYKSASK PSQKSREIIE TDTSSSDSDG SESLPPSSQT  
 PKYPESNRTP VKPSSVEEED SFFRQRMFSP MEEKELLSPL SEPDDRYPLI VKIDLNLLTR

IPGKPYKETE PPKGEKKNVP EKHSREVQKQ ASEKASNKGK RKHKNDTDR ASESKKPKTE  
DKNSSGHKPS SSRESSKQSS TKEKDLLPSP AGPILSKDSK TEHGSRKRTV SQSSSLKSSG  
TSSKENSQSS SKSSSSSTAK QKKTEGKGPS SSKEAKEKAP NSSSNCPST PTSESSKPRR  
TKLAFDDRNY SADHYLQEAK KLKHNADALS DRFEKAVYYL DAVVSFIECG NALEKNAQES  
KSPFPMYSDT VELIKYTMKL KNYLAPDATA ADKRLTVLCL RCQSLLYLRL FKLKKNALK  
YSKTLTEHLK NSYSNSQAPS PGLGSKAVGM PSPVSPKLSP GNSGSYSSGG SSASASGSSV  
TIPQKIHQMA ASYVQVTSNF LYATEIWDQA EQLSKEQKEF FAELDKVMGP LIFNASIMTD  
LARYTRQLH WLRQDAKLIS

**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.
- Mouse Aff4 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.

## Product Details

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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: AFF4

Alternative Name: Aff4 ([AFF4 Products](#))

Background: Key component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. In the SEC complex, AFF4 acts as a central scaffold that recruits other factors through direct interactions with ELL proteins (ELL, ELL2 or ELL3) and the P-TEFb complex. In case of infection by HIV-1 virus, the SEC complex is recruited by the viral Tat protein to stimulate viral gene expression (By similarity). {ECO:0000250}.

Molecular Weight: 127.6 kDa Including tag.

UniProt: [Q9ESC8](#)

## 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: 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

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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

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