

Datasheet for ABIN3096499

## ZFAT Protein (AA 1-1243) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	ZFAT
Protein Characteristics:	AA 1-1243
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFAT protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence:	<p>METRAAENTA IFMCKCCNLF SPNQSELLSH VSEKHMEEGV NVDEIIPLR PLSTPEPPNS            SKTGDEFLVM KRKRGRPKGS TTKSSTEEL AENIVSPTED SPLAPEEGNS LPPSSLECSK            CCRKFSNTRQ LRKHICIIVL NLGEEGEAG NESDLELEKK CKEDDREKAS KRPRSQKTEK            VQKISGKEAR QLSGAKKPII SVVLTAEAI PGATKIVPVE AGPPETGATN SETTSADLVP            RRGYQEYAIQ QTPYEQPMKS SRLGPTQLKI FTCEYCNKVF KFKHSLQAHL RIHTNEKPYK            CPQCSYASAI KANLNVHLRK HTGKGFACDY CSFTCLSKGH LKVHIERVHK KIKQHCRFCK            KKYSVDK NLI KHIRDAHDPQ DKKVKEALDE LCLMTREGKR QLLYDCHICE RKFKNELDRD            RHMLVHGDKW PFACELCGHG ATKYQALELH VRKHPFVYVC AVCRKKFVSS IRLRTHIKEY            HGAAQEALVF TSSINQSFCL LEPGGDIQQE ALGDQLQLVE EEFALQGVNA LKEEACPGDT            QLEEGRKEPE APGEMPAPAV HLASPQAEST ALPPCELETT VVSSSDLHSQ EVSDDFLLK            NDTSSAEAHA APEKPPDMQH RSSVQTQGEV ITLLLSKAQS AGSDQESHGA QSPLGEGQNM            AVLSAGDPDP SRCLRSNPAE ASDLLPPVAG GGDTITHQPD SCKAAPEHRS GITAFMKVLN</p>
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SLQKKQMNTS LCERIRKVYV DLECEYCGKL FWYQVHFDMMH VRTHTREHLY YCSQCHYSSI  
TKNCLKRHVI QKHSNILLKC PTDGCDYSTP DKYKLQAHLK VHTALDKRSY SCPVCEKSFS  
EDRLIKSHIK TNHPEVSMST ISEVLGRRVQ LKGLIGKRAM KCPYCDFYFM KNGSDLQRHI  
WAHEGVKPFK CSLCEYATRS KSNLKAHMNR HSTKTHLCD MCGKKFKSKG TLKSHKLLHT  
ADGKQFKCTV CDYTAAQKPQ LLRHMEQHVS FKPFRCACHCH YSCNISGSLK RHYNRKHPNE  
EYANVGTGEL AAEVLIQGGG LKCPVCSFVY GTKWEFNRHL KKNHGLKVVVE IDGDPKWETA  
TEAPEEPSTQ YLHITEAEED VQGTAAVAA LQDLRYTSES GDRLDPTAVN ILQIIEELGA  
ETHDATALAS VVAMAPGTVT VVKQVTEEEP SSNHTVMIQE TVQQASVELA EQHHLVVSSD  
DVEGIETVTV YTQGGEASEF IVYVQEAMQP VEEQAVEQPA QEL

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

## Product Details

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### Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

### Grade:

Crystallography grade

## Target Details

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### Target:

ZFAT

### Alternative Name:

ZFAT ([ZFAT Products](#))

### Background:

Zinc finger protein ZFAT (Zinc finger gene in AITD susceptibility region) (Zinc finger protein 406),FUNCTION: May be involved in transcriptional regulation. Overexpression causes down-regulation of a number of genes involved in the immune response. Some genes are also up-regulated (By similarity). {ECO:0000250}.

### Molecular Weight:

139.0 kDa

### UniProt:

[Q9P243](#)

## 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.

## Application Details

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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
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