

Datasheet for ABIN3131619

## ZFPM1 Protein (AA 1-995) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ZFPM1
Protein Characteristics:	AA 1-995
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFPM1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MSRRKQSNPR QIKRSLRDME AGEEAKAMDS SPKEQEAPDP EPAAIEPPS PPREDVSPPA</p> <p>VPAPPESPED PEDMEGQELE MRPQDEEKEE KEEEAAMASP WSGPEELELA LQDGQRCVRA</p> <p>RLSLTEGLSW GPFYGSIQTR ALSPEREEPG PAVTLMVDES CWLRMLPQVL TEEAANSEIY</p> <p>RKDDALWCRV TKVVPSSGGLL YVRLVTEPHG APRHPVQEPV EPGGLAPVHT DIQLLPQQAG</p> <p>MASILATAVI NKDVFPCKDC GIWYRSERNL QAHLLYYCAS RQRAGSPVSA TEEKPKETYP</p> <p>NERVCPFPQC RKSCPSASSL EIHMRSHSGE RPFVCLICLS AFTTKANCER HLKVHTDTLS</p> <p>GVCHNCGFIS TTRDILYSHL VTNHMVCQPG SKGEIYSPGA GHAAKLPPD SLAGFQQHSL</p> <p>MHSPLVPADK APTPSSGLDS KAEVTNGETR VPPQNGGSSE SPAAPRTIKV EAAEEPEATR</p> <p>ASGPGEPPGQ APSRTPSPHS PNPVRVKTEL SSPTPGSSPG PGELTMAGTL FLPQYVFSPD</p> <p>AGTTTVPTAP QASEILAKMS ELVHNRLQQG AGSSGAAGTP TGLFSGTKGA TCFECEITFN</p> <p>NINNFYVHKR LYCSGRRAPE DPPTVRRPKA ATGPARAPAG AAAEPDPSRS SPGPGPREEE</p>

ASGTTTPEAE AAGRGSEGSQ SPGSSVDDAE DDPSRTLCEA CNIRFSRHET YTVHKRYICA  
SRHDPPRRP PAPTTAPGPA APALTAPPVR TRRRRKLYEL PAAGAPPPAA GPAPVPVVP  
PTAELPSSPR PGSASAGPAP ALSPSPVPDG PIDLSKRPRR QSPDAPTALP ALADYHECTA  
CRVSFHSLEA YLAHKKYSCP AAPLRTTALC PYCPPNGRVR GDLVEHLRQA HGLQVAKPAA  
SPGAEPRTPA ERAPRDSPDG RAPRSPSPAP ENTPSDPADQ GARTPSKGPP APAPAPGGGG  
GHRYCRLCNI RFSSLSTFIA HKKYYCSSHA AEHVK

**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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

## Product Details

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

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: ZFPM1

Alternative Name: Zfpm1 ([ZFPM1 Products](#))

Background: Zinc finger protein ZFPM1 (Friend of GATA protein 1) (FOG-1) (Friend of GATA 1) (Zinc finger protein multitype 1),FUNCTION: Transcription regulator that plays an essential role in erythroid and megakaryocytic cell differentiation. Essential cofactor that acts via the formation of a heterodimer with transcription factors of the GATA family GATA1, GATA2 and GATA3. Such heterodimer can both activate or repress transcriptional activity, depending on the cell and promoter context. The heterodimer formed with GATA proteins is essential to activate expression of genes such as NFE2, ITGA2B, alpha- and beta-globin, while it represses expression of KLF1. May be involved in regulation of some genes in gonads. May also be involved in cardiac development, in a non-redundant way with ZFPM2/FOG2.  
{ECO:0000269|PubMed:10078204, ECO:0000269|PubMed:10329627, ECO:0000269|PubMed:11940669, ECO:0000269|PubMed:12356738, ECO:0000269|PubMed:14614148, ECO:0000269|PubMed:9230307, ECO:0000269|PubMed:9553047}.

Molecular Weight: 106.0 kDa

UniProt: [O35615](#)

## 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: 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

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months