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



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### Overview

Quantity:	1 mg
Target:	ZFPM1
Protein Characteristics:	AA 1-995
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFPM1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### **Product Details**

Sequence:

MSRRKQSNPR QIKRSLRDME AGEEAKAMDS SPKEQEAPDP EAPAIEEPPS PPREDVSPPA
VPAPPESPED PEDMEGQELE MRPQDEEKEE KEEEAAMASP WSGPEELELA LQDGQRCVRA
RLSLTEGLSW GPFYGSIQTR ALSPEREEPG PAVTLMVDES CWLRMLPQVL TEEAANSEIY
RKDDALWCRV TKVVPSGGLL YVRLVTEPHG APRHPVQEPV EPGGLAPVHT DIQLLPQQAG
MASILATAVI NKDVFPCKDC GIWYRSERNL QAHLLYYCAS RQRAGSPVSA TEEKPKETYP
NERVCPFPQC RKSCPSASSL EIHMRSHSGE RPFVCLICLS AFTTKANCER HLKVHTDTLS
GVCHNCGFIS TTRDILYSHL VTNHMVCQPG SKGEIYSPGA GHPAAKLPPD SLAGFQQHSL
MHSPLVPADK APTPSSGLDS KAEVTNGETR VPPQNGGSSE SPAAPRTIKV EAAEEPEATR
ASGPGEPGPQ APSRTPSPHS PNPVRVKTEL SSPTPGSSPG PGELTMAGTL FLPQYVFSPD
AGTTTVPTAP QASEILAKMS ELVHNRLQQG AGSSGAAGTP TGLFSGTKGA TCFECEITFN
NINNFYVHKR LYCSGRRAPE DPPTVRRPKA ATGPARAPAG AAAEPDPSRS SPGPGPREEE
ASGTTTPEAE AAGRGSEGSQ SPGSSVDDAE DDPSRTLCEA CNIRFSRHET YTVHKRYYCA

SRHDPPRRP PAPTTAPGPA APALTAPPVR TRRRRKLYEL PAAGAPPPAA GPAPVPVVPS
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.

### 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 posttranslational 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 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:

 $\geq$  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)

## 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:	035615

# **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 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!
Restrictions:	For Research Use only
Handling	
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)