

Datasheet for ABIN3125413  
**MDFIC Protein (AA 1-247) (Strep Tag)**



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## Overview

Quantity:	1 mg
Target:	MDFIC
Protein Characteristics:	AA 1-247
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MDFIC protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence: MSCAGEALAP GPAEQQCPVE AGGGRLGSPA HEACNEDNTE KDKRPATSGH TRCGLMRDQS  
IWPNPSAGEL VRTQPERLPQ LQ TSAQEPGK EETGKIKNGG HTRMSNGNGI PHGAKHVSVE  
NHKISAPVSQ KMHRKIQSSL SVNNDISKKS KVNAVFSPKA ASSPEDCCVH CILACLFCEF  
LTLCNIVLGQ ASCGICTSEA CCCCCGDEMG DDCSCPCDMD CGIMDACCES SDCLEICMEC  
CGICFPS

**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 in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have

## Product Details

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

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

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

## Target Details

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Target: MDFIC

Alternative Name: Mdfic ([MDFIC Products](#))

Background: MyoD family inhibitor domain-containing protein (I-mfa domain-containing protein) (Kidney cell line-derived transcript 1),FUNCTION: Required to control the activity of various transcription

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## Target Details

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factors through their sequestration in the cytoplasm. Retains nuclear Zic proteins ZIC1, ZIC2 and ZIC3 in the cytoplasm and inhibits their transcriptional activation. Modulates the expression from cellular promoters. Binds to the axin complex, resulting in an increase in the level of free beta-catenin. Affects axin-regulation of the WNT and JNK signaling pathways. Involved in the development of lymphatic vessel valves (PubMed:35235341). It is required to promote lymphatic endothelial cell migration, in a process that involves down-regulation of integrin beta 1 activation and control of cell adhesion to the extracellular matrix (By similarity). {ECO:0000250|UniProtKB:Q9P1T7, ECO:0000269|PubMed:15207726, ECO:0000269|PubMed:15465018, ECO:0000269|PubMed:35235341}.

Molecular Weight: 26.1 kDa

UniProt: [Q8BX65](#)

## 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: 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months