

Datasheet for ABIN3123090

## MNS1 Protein (AA 1-491) (Strep Tag)



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### Overview

Quantity:	1 mg
Target:	MNS1
Protein Characteristics:	AA 1-491
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MNS1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Sequence: MATKKRALSF SEKHQKLVDE KFRKSLNIQV MNKLERQAKN QVVQNEDEK VERQRFLRVL  
 QNEQFELDME EAIQKAEANK MLRDRQLEQE ERLANELARL KHESLKDKKM RQQVRENSIE  
 LRELEQKLKA AYMNKERAAQ IVEKDAMKYE QMKRD AEIER IMMEEHDRLL KEESAKQERR  
 NKERAQYYLD LEKQLEDQER RKQEAYEQLL KEKLMIDEIV RKIYEEDQVE RQQKLEKKNA  
 IQKYIEEFQR AQDFWRQKKR EEMEEENRKI IEFANIQEQR EGERMARVHE IEEKRVQRQN  
 LLMKQLEETL RQRDDLEQVR QELYQEEQAE IIKLVKKEA ELRLRRQREM KQDFEDQMAL  
 KELILQAAKE EEETFKKAML AKFAEDDRIE LMNAQKQRMK QLEHKRAVEK LIEERRSQFL  
 ADKQRELEEL QLQRRQGC I NEIIIEERLR LLKEHAAKLL GYLPKGVFKR EDDVDMLGEE  
 FRKAYQKRDG V

**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.**

## Product Details

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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.
- 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:

MNS1

## Target Details

Alternative Name:	Mns1 ( <a href="#">MNS1 Products</a> )
Background:	<p>Meiosis-specific nuclear structural protein 1,FUNCTION: Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (By similarity). May play a role in the control of meiotic division and germ cell differentiation through regulation of pairing and recombination during meiosis. Required for sperm flagella assembly (PubMed:22396656). May play a role in the assembly and function of the outer dynein arm-docking complex (ODA-DC). ODA-DC mediates outer dynein arms (ODA) binding onto the axonemal doublet microtubules (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q8NEH6, ECO:0000269 PubMed:22396656, ECO:0000269 PubMed:8032679}.</p>
Molecular Weight:	60.2 kDa
UniProt:	<a href="#">Q61884</a>

## 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:	<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

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

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	Unlimited (if stored properly)
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