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Datasheet for ABIN3129862  
**MOAP1 Protein (AA 1-352) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MOAP1
Protein Characteristics:	AA 1-352
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOAP1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

### Product Details

Sequence: MTLRLLEDWC RGMDMNPRA LLVAGIPPTC GVADIEEALQ AGLAPLGEHR LLGRMFRRDE  
NKNVALIGLT VETGSALVPK EIPAKGGVWR VIFKPPDTS DFLCRLNEFL KEGMTMGEL  
TRVLGNRNDP LGLDPGIMIP EIRAPMLAQA LNEALKPTLQ YLRYKKLSVF SGRDPPGPGE  
EEFESWMFHT SQVMKTWQVS DVEKRRRLIE SLRGPAFEII RVLKINNPFI TVAECKLTLE  
TIFGIIDNPR ALQVKYLTTY QKTDEKLSAY VLRLEPLLQK LVQKGAIEKE VVNQARLDQV  
IAGAVHKSVR RELGLPEGSP APGLLQLLTL IKDKEAESEE VLLQAELEGY CT

**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 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 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.

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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.

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Purity:

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

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## Product Details

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

## Target Details

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Target: MOAP1

Alternative Name: Moap1 ([MOAP1 Products](#))

Background: Modulator of apoptosis 1 (MAP-1) (M mMOAP1),FUNCTION: Retrotransposon-derived protein that forms virion-like capsids (PubMed:34413232). Acts as an effector of BAX during apoptosis: enriched at outer mitochondria membrane and associates with BAX upon induction of apoptosis, facilitating BAX-dependent mitochondrial outer membrane permeabilization and apoptosis (By similarity). Required for death receptor-dependent apoptosis (By similarity). When associated with RASSF1, promotes BAX conformational change and translocation to mitochondrial membranes in response to TNF and TNFSF10 stimulation (By similarity). Also promotes autophagy: promotes phagophore closure via association with ATG8 proteins (PubMed:33783314). Acts as an inhibitor of the NFE2L2/NRF2 pathway via interaction with SQSTM1: interaction promotes dissociation of SQSTM1 inclusion bodies that sequester KEAP1, relieving inactivation of the BCR(KEAP1) complex (By similarity).  
{ECO:0000250|UniProtKB:Q96BY2, ECO:0000269|PubMed:33783314, ECO:0000269|PubMed:34413232}.

Molecular Weight: 39.4 kDa

UniProt: [Q9ERH6](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

## 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.

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## Application Details

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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. 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)