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Datasheet for ABIN3136681  
**MIB2 Protein (AA 1-973) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MIB2
Protein Characteristics:	AA 1-973
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIB2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence: MDLDPHAGVQ VGMRVVRGMD WKWGQQDGGE GGVGTVVELG RHGSPSTPDR TVVVQWDQGT  
RTNYRAGYQG AHDLLLYDNA QIGIRHPNII CDCCKKHGLR GMRWKCRCVF DYDLCTQCYM  
HNKHDLTHAF ERYETSHSRP VTLSPRQGLP RIPLRGIFQG AKVVRGPDWE WGSQDGGEGK  
TGRVVDIRGW DVETGRSVAS VTWADGTTNV YRVGHKKGKVD LRCVGEAAGG FYYKEHLPKL  
GKPAELQRRV SADGQPFQRG DKVKCLLDTD VLRDMQEGHG GWNPRMAEFI GQMGTVHRIT  
DRGDVRVQFN HETRWFHPG ALTKHNSFWV GDVVRVIGDL DTVKRLQAGH GEWTDDMAPA  
LGRVGKVVKV FGDGNLRVAV GGQRWTFSPS CLVAYRPEED ANLDVAERAR ENKSAASVSV  
AGSLVALDK LRTQKSDPEH PGRLVVEAAL GNVARALDLL RRHPEQASYH PALVVDTKNQ  
GRTALQVAAY LGQVELVRL LQARASMDLP DDEGNTVLHY TAMGNQPEAT RVLLSAGCAV  
DARNGTRSTA LHVAVQRGFL EVVKILCERG CDVNLPDAHA DTPLHSAISA GAGASSIVEV  
LTEVPGIDVT ATNSQGFTLL HHASLKGHVL AVRKILARAR QLVDKEDG FTALHLAALN  
NHREVAQVLI REGRCDVNVR NRKLSPLHL AVQQAHLGLV PLLVDAGCSV NTEDEEGDTA

LHVALQRHQL LPLVADRAGG DPGPLQLLSR LQASGLPGCT ELTVGAAVAC FLALEGADVS  
YANHRGRSPL DLATEGRVLK ALQGCAQRFER ERQAGGGGGV PPGPRHVLST PNTVTNLHVS  
GTAGPEAAEC LVCSELALLI LFSPCQHRTV CEECARRMCK CIRCQVVISK KLRPDGSEVV  
NAIQVGPGR QLVEELQSRV RQMEERITCP ICIDSHIRLV FQCGHGACAP CGAALNACPI  
CRQPIRDRIQ IFV

**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 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

## Product Details

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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®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
Purity:	≥ 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)
Grade:	Crystallography grade

## Target Details

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Target:	MIB2
Alternative Name:	Mib2 ( <a href="#">MIB2 Products</a> )
Background:	E3 ubiquitin-protein ligase MIB2 (EC 2.3.2.27) (Dystrophin-like protein) (Dyslike) (Mind bomb homolog 2) (Mind bomb-2) (RING-type E3 ubiquitin transferase MIB2) (Skeletrophin),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. Positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors. {ECO:0000269 PubMed:15824097}.
Molecular Weight:	106.0 kDa
UniProt:	<a href="#">Q8R516</a>
Pathways:	<a href="#">Notch Signaling</a>

## 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

## 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)