

Datasheet for ABIN3093967

## MYO3B Protein (AA 1-1341) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	MYO3B
Protein Characteristics:	AA 1-1341
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO3B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MKHL YGLFHY NPMMLGLES L PDPTDTWEI I ETIGKGT YGK VYKVTNKR DG SLAAVKIL DP</p> <p>VSDMDEEIEA EYNILQFLPN HPNVVKFYGM FYKADHCVGG QLWLVL ELCN GGSVTELVKG</p> <p>LLRCGQRLDE AMISYILYGA LLGLQLHLNN RIIHRDVKGN NILLTTEGGV KLVDFGVSAQ</p> <p>LTSTR LRRNT SVGTPFWMAP EVIACEQQYD SSYDARCDVW SLGITAIELG DGD PPLFDMH</p> <p>PVKTLFKIPR NPPPTLLHPE KWCEEFNHFI SQCLIKDFER RPSVTHLLDH PFIKGVH GKV</p> <p>LFLQKQLAKV LQDQKHQNPV AKTRHERMHT RRPYHVEDAE KYCLEDDL VN LEVLDEDTII</p> <p>HQLQKRYADL LIYTYVG DIL IALNPFQNL S IYSPQFSRL Y HGVKRASNPP HIFASADAAY</p> <p>QCMVTL SKDQ CIVISGESGS GKTESAHLIV QHLTFLGKAN NQTLREKILQ VNSLVEAFGN</p> <p>SCTAINDNSS RFGKYLEMMF TPTGVVMGAR ISEYLLEKSR VIKQAAREKN FHIFYYIYAG</p> <p>LHHQKKLSDF RLPEEKPPRY IADETGRVMH DITSKESYRR QFEAIQHCFR IIGFTDK EVH</p> <p>SVYRILAGIL NIGNIEFAAI SSQHQT DKSE VPNAEALQNA ASVLCISP EE LQEALTSHCV</p>

VTRGETIIRA NTVDRAADV DAMSKALYGR LFSWIVNRIN TLLQPDENIC SAGGGMNVGI  
LDIFGFENFQ RNSFEQLCIN IANEQIQYYF NQHVFALQEQM EYQNEGIDAV PVEYEDNRPL  
LDMFLQKPLG LLALLDEESR FPQATDQTLV DKFEDNLRCK YFWRPKGVEL CFGIQHYAGK  
VLYDASGVLE KNRDTLPADV VVLRRTSENK LLQQLFSIPL TKTGNLAQTR ARITVASSSL  
PPHFSAGKAK VDTLEVIRHP EETTNMKRQT VASYFRYSLM DLLSKMVVGQ PHFVRCIKPN  
DDREALQFSR ERVLAQLRST GILETVSIRR QGYSHRILFE EFVKRYYYLA FTAHQTPLAS  
KESCAVAILEK SRLDHWVLGK TKVFLKYYHV EQLNLLLREV IGRVVVLQAY TKGWLGGARRY  
KRVREKREKG AIAQSAWRG YDARRKFKKI SNRRNESAAH NQAGDTSNQS SGPHSPVAAAG  
TRGSAEVQDC SEPGDHKVLGR GSVHRRSHSQ AESNNGRTQT SSNSPAVTEK NGHSQAQSSP  
KGCDIFAGHA NKHSVSGTDL LSSRICHPAP DQQGLSLWGA PQKPGSENGL AQKHRTPRRR  
CQQPKMLSSP EDTMYYNQLN GTLEYQGSKR KPRKLGQIKV LDGEDEYYKS LSPVDCIPEE  
NNSAHPSSFFS SSSKGDSFAQ H

**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 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

## Product Details

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.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	MYO3B
Alternative Name:	MYO3B ( <a href="#">MYO3B Products</a> )
Background:	Myosin-IIIb (EC 2.7.11.1),FUNCTION: Probable actin-based motor with a protein kinase activity. Required for normal cochlear hair bundle development and hearing. Plays an important role in the early steps of cochlear hair bundle morphogenesis. Influences the number and lengths of stereocilia to be produced and limits the growth of microvilli within the forming auditory hair bundles thereby contributing to the architecture of the hair bundle, including its staircase pattern. Involved in the elongation of actin in stereocilia tips by transporting the actin regulatory factor ESPN to the plus ends of actin filaments. {ECO:0000250 UniProtKB:Q1EG27}.
Molecular Weight:	151.8 kDa
UniProt:	<a href="#">Q8WXR4</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:	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

Application Details

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months