

Datasheet for ABIN3094041

**MYO3A Protein (AA 1-1616) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	MYO3A
Protein Characteristics:	AA 1-1616
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO3A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MFPLIGKTII FDNFPDPSDT WEITETIGKG TYGKVFVKVLN KKNQQAARK ILDPHIDIDE EIEAEYNILK ALSDHPNVVR FYGIYFKKDK VNGDKLWLVL ELCSGGSVTD LVKGFLKRGE RMSEPLIAYI LHEALMGLQH LHNNKTIHRD VKGNILLTT EGGVKLVDFG VSAQLTSTRH RRNTSVGTPF WMAPEVIACE QQLDTTYDAR CDTWSLGITA IELGDGDPPL ADLHPMRALF KIPRNPPPKL RQPELWSAEF NDFISKCLTK DYEKRPTVSE LLQHKFITQI EGKDVMLQKQ LTFEIGHQC MGGTEKARRE RIHTKKGNFN RPLISNLKDV DDLATLEILD ENTVSEQLEK CYSRDQIYVY VGDILIALNP FQSLGLYSTK HSKLYIGSKR TASPPIHIFAM ADLGYQSMIT YNSDQCIVIS GESGAGKTEN AHLLVQQLTV LGKANNRTLQ EKILQVNNLV EAFGNACTII NDNSSRFGKY LEMKFTSSGA VVGAQISEYL LEKSRVIHQA IGEKNFHIFY YIYAGLAEEK KLAHYKLPEN KPPRYLQNDH LRTVQDIMNN SFYKSQYELI EQCFKVGIFT MEQLGSIYSI LAAILNVGNI EFSSVATEHQ IDKSHISNHT ALENCASLLC IRADELQEAL TSHCVVTRGE TIIRPNTVEK ATDVRDAMAK TLYGRFISWI VNCINSLLKH DSSPSGNGDE LSGILDIFG
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FENFKNSFE QLCINIANEQ IQYYYNQHV F AWEQNEYLNE DVDARVIEYE DNWPLLDMFL  
QKPMGLLSLL DEESRFPKAT DQTLVEKFEG NLKSQYFWRP KRMELSGFIH HYAGKVLVNA  
SGFLAKNRDT LPTDIVLLLR SSDNSVIRQL VNHPLTKTGN LPHSKTKNVI NYQMRTSEKL  
INLAKGDTGE ATRHARETTN MKTQTVASYF RYSLMDLLSK MVMGQPHFVR CIKPNSEKQA  
RKYDKEKVLL QLRYTGILET ARIRRLGFSH RILFANFIKR YYLLCYKSSE EPRMSPDTCA  
TILEKAGLDN WALGKTKVFL KYHVEQLNL MRKEAIDKLI LIQACVRAFL CSRRYQKIQE  
KRKESAIHQ SAARGHLVRK QRKEIVDMKN TAVTTIQTSD QEFDYKKNFE NTRESFVKKQ  
AENAIANER FISAPNNKGS VSVVKTSTFK PEEETNAVE SNNRVYQTPK KMNNVYEEEV  
KQEFYLVGPE VSPKQKSVKD LEENSNLRKV EKEEAMIQSY YQRYTEERNK EESKAAYLER  
KAISERPSYP VPWLAENETS FKKTLEPTLS QRSIQNANS MEKEKTSV TQRAPICSQE  
EGRGRLRHET VKERQVEPVT QAQEEEDKAA VFIQSKYRGY KRRQQLRKDK MSSFKHQRIV  
TTPTEVARNT HNLYSYPTKH EEINNIKKD NKDSKATSER EACGLAIFSK QISKLSEEFY  
ILQKKLNEMI LSQQLKSLYL GVSHHKPINR RVSSQQCLSG VCKGEEKIL RPPRRPRPKP  
TLNNPEDSTY YYLLHKSIE EKRRPRKDSQ GKLLDLEDFY YKEFLPSRSG PKEHSPSLRE  
RRPQQELQNQ CIKANERCWA AESPEKEEER EPAANPYDFR RLLRKTQRR RLVQQS

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human MYO3A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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

specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

Target:	MYO3A
Alternative Name:	MYO3A ( <a href="#">MYO3A Products</a> )
Background:	Probable actin-based motor with a protein kinase activity. Probably plays a role in vision and hearing. {ECO:0000269 PubMed:12032315}.
Molecular Weight:	187.2 kDa Including tag.
UniProt:	<a href="#">Q8NEV4</a>
Pathways:	<a href="#">Sensory Perception of Sound</a> , <a href="#">Phototransduction</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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

## Application Details

Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process