

Datasheet for ABIN7564652  
**MYO3A Protein (AA 1-1613) (His tag)**



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## Overview

Quantity:	1 mg
Target:	MYO3A
Protein Characteristics:	AA 1-1613
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO3A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Myo3a Protein expressed in mammalien cells.
Sequence:	MLPLIGKTII FDNFPDPSDT WEIETIGKG TYGKVFKVLN KKSGQKAAVK ILDPHIDE EIEAEYNILR T LSDHPNVVR FYGIYFKKDK INGDKLWLV ELCNGGSVTD LVKGFLKRGE RMSEPIAYI LHEALMGLQH LHSNKTIHRD VKGNNILLTT EGGVKLVDFG VSAQLSSTRH RLNTSVGTPF WMAPEVIACE QQLDTTYDAR CDTWSLGITA IELGDGDPPL AELHPMRALF KIPRNPPPKL RQPELWSAEF NDFISKCLTK DYEKRPTVSD LLKHKFITQI EGKDVILQKQ LMEFIDIHQ LGSTEKARHE RIHTKKGNLN RSLISSLKDV DDLATLDVLD EPTASPHLHP CHSRDQIHIH VADILIALNP FQSLGIYSPK LSRLYIGAKR TANPPHIFAM ADLGYQSMVT YNADQCIVIS GESGAGKTES AHLLVQQLTV LGKANNRTLQ EKILQMNNLV EAFGNACTII NDSSRFKGY LEMKFTSSGA VVGAQISEYL LEKSRVIHQ MGEKNFHIFY YIYGGLAEKK KLALYKSPEH KPPRYLQNDN LRTVQDMMNN SFYKSQYELI EQCFKVIQFT MEQLASVYSV LAAILNVGNI EFSSVATEYQ MDKSYICNHT ALENCASLLC IQADELQEAL TSHCVVTRGE TIIRPNTVEK

AADVRDAMAK TLYGRLFSCI VNCINSLKX DTSPSGDEEL NIGILDIFGF ENFKRNSFEQ  
LCINIANEQI QYYFNQHVFA WEQNEYLNEE V DARVIEYED NRPLDMFLQ KPMGLLSLLD  
EESRFPKATD QTLIEKFEDN LKSQYFWRPK RMELSFQIHH YAGKVLVSAS GFLAKNRDTF  
PTDIVLPLRS SENSVIRQLV NHPLTKTGNL PLSKTKNIVN YQMWNSEKST NLTKGETRDV  
TCHACETTNV KTQTVSSYFR YSLMDLLSKM VVGQPHFVRC IKPNNERQAR KYDKEKVLLQ  
LRCTGILETA RIRRLGYSHR ILFANFIKRY YILCYKSSEE PPVSPDTCAA ILEKAGLDNW  
ALGKTKVFLK YYHVEQLNLM RKEATNKLVL IQASVRAFLG ARRYQELQKQ RKSSAVIIQS  
AARGHLVRKQ RKEIVDMKNT AVTTIQTSDQ EFDYKKNFEN TRESFVKKQT ENAVPTNESN  
TSTPNNKESP SAGKTAPFIA ESKATNVESN NRRYHTQKKM SNVYAEGQNNQ ELYIVEDTWA  
EVSPRQKYVQ DLEESRKMVK EEKGDVAVIQS YCQWYTEGSN FEESKATCLE GRETWERTSC  
PGLWLTEEIY LRKTLDPDLS QKSVYQNADG KEKEHKVSVV TQNAPLGNLE RDYHLLGFLG  
EEDTGPVPA QEEHKAVSIH SKYQSSKKKQ QLGKDRAPP FKNQKILSS TEVAKTTHNV  
YPCPTKQEGV HHSKMVDERD SKMASKKEAW DLAMFSRQIS KLSEEFILQ KNLNEIILAQ  
QLKPFYLGIV RHKPINRHVS THQYLSGVSK GEEPILRPP RRPKPKTLN NPEDSTYYL  
LHKSTQEEKR RPGKDSQGL LGLEDFYKE FLPTHYGPKA HSSNAREWKA LKEPQAQPIE  
SNERCWTTSE NESLEEEERIS ANPYDYRRL RKTQRQLV QQL **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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## Product Details

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Grade: custom-made

## Target Details

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Target: MYO3A

Alternative Name: Myo3a ([MYO3A Products](#))

Background: Myosin-IIIa (EC 2.7.11.1),FUNCTION: Probable actin-based motor with a protein kinase activity. Probably plays a role in vision and hearing (By similarity). 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 (PubMed:26754646). Involved in the elongation of actin in stereocilia tips by transporting the actin regulatory factor ESPN to the plus ends of actin filaments (PubMed:19287378). {ECO:0000250|UniProtKB:Q8NEV4, ECO:0000269|PubMed:19287378, ECO:0000269|PubMed:26754646}.

Molecular Weight: 184.7 kDa

UniProt: [Q8K3H5](#)

Pathways: [Sensory Perception of Sound, Phototransduction](#)

## 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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition 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: 12 months