

Datasheet for ABIN3136580  
**MYO3A Protein (AA 1-1613) (His tag)**



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	MYO3A
Protein Characteristics:	AA 1-1613
Origin:	Mouse
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:	<p>MLPLIGKTII FDNFPDPSDT WEIETIGKG TYGKVFVNLN KKSGQKAAVK ILDPIDHIDE EIEAEYNILR          TLDHPNVVR FYGIYFKKDK INGDKLWLV ELCNGGSVTD LVKGFLKRGE RMSEPIAYI          LHEALMGLQH LHSNKTIHRD VKGNNILLTT EGGVKLVDFG VSAQLSSTRH RLNTSVGTPF          WMAPEVIACE QQLDTTYDAR CDTWSLGITA IELGDGDPPL AELHPMRALF KIPRNPPPKL          RQPELWSAEF NDFISKCLTK DYEKRPVSD LLKHKFITQI EGKDVILQKQ LMEFIDIHQ          LGSTEKARHE RIHTKKGNLN RSLISSLKDV DDLATLDVLD EPTASPHLHP CHSRDQIHH          VADILIALNP FQSLGIYSPK LSRLYIGAKR TANPPHIFAM ADLGYQSMVT YNADQCIVIS          GESGAGKTES AHLLVQQLTV LGKANRRTLQ EKILQMNNLV EAFGNACTII NDNSSRFGKY          LEMKFTSSGA VVGAQISEYL LEKSRVIHQ MGEKNFHIFY YIYGGLAEKK KLALYKSPEH          KPPRYLQNDN LRTVQDMMNN SFYKSQYELI EQCFKVIQFT MEQLASVYSV LAAILNVGNI          EFSSVATEYQ MDKSYICNHT ALENCASLLC IQADELQEAL TSHCVVTRGE TIIRPNTVEK          AADVRDAMAK TLYGRFLFSCI VNCINSLKX DTSPSGDEEL NIGILDIFGF ENFKRNSFEQ</p>
-----------	--

LCINIANEQI QYYFNQHVFA WEQNEYLNED V DARVIEYED NRPLDMFLQ KPMGLLSLLD  
EESRFPKATD QTLIEKFEDN LKSQYFWRPK RMELSFGEIHH YAGKVLYSAS GFLAKNRDTF  
PTDIVLPLRS SENSVIRQLV NHPLTKTGNL PLSKTKNIVN YQMWNSEKST NLTKGETRDV  
TCHACETTNV KTQTVSSYFR YSLMDLLSKM VVGQPHFVRC IKPNNERQAR KYDKEKVLLQ  
LRCTGILETA RIRRLGYSHR ILFANFIKRY YILCYKSSEE PPVSPDTCAA ILEKAGLDNW  
ALGKTKVFLK YYHVEQLNLM RKEATNKLVL IQASVRAFLG ARRYQELQQK RKSSAVIIQS  
AARGHLVRKQ RKEIVDMKNT AVTTIQTSDQ EFDYKKNFEN TRESFVKKQT ENAVPTNESN  
TSTPNNKESP SAGKTAPFIA ESKATNVESN NRRYHTQKKM SNVYAEGQNQ ELYIVEDTWA  
EVSPRQKYVQ DLEESRKM RK EEKGDVAVIQS YCQWYTEGSN FEESKATCLE GRETWERTSC  
PGLWLTEEIY LRKTLDP TLS QKSVYQNADG KEKEHKVSVV TQNAPLGNLE RDYHLLGFLG  
EEDTGPVPA QEEHKAVSIH SKYQSSKKKQ QLGKDR LAPP FKNQKILSSS TEVAKTTHNV  
YPCPTKQEGV HHSKMVDERD SKMASKKEAW DLAMFSRQIS KLSEEYFILQ KNLNEIILAQ  
QLKPFYLG IY RHKPINRHVS THQYLSGVSK GEEP KILRPP RRP RPKTLN NPEDSTYYYY  
LHKSTQEEKR RPGKDSQGLK LGLEDFYYKE FLPTHYGPKA HSSNAREWKA LKEPQAQPIE  
SNERCWTTSE NESLEEERIS ANPYDYRRL R KTSQRQLV QQL

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

---

### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse 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:

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.
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.

**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 ([MYO3A Products](#))

**Background:** Probable actin-based motor with a protein kinase activity. Probably plays a role in vision and hearing.

**Molecular Weight:** 185.7 kDa Including tag.

**UniProt:** [Q8K3H5](#)

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

## 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:** Protein has not been tested for activity yet. 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