

Datasheet for ABIN7563642
MYO3B Protein (AA 1-1305) (His tag)



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Overview

Quantity:	1 mg
Target:	MYO3B
Protein Characteristics:	AA 1-1305
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYO3B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Myo3b Protein expressed in mammalian cells.
Sequence:	MMLGLES LPD PMETWEI IET IGKGT YGKVY KVANKR DGS L AAVKVLDPVS DMDEEIEAEY NILQFLPSHP NVVKFYGMFY KADRCVGGQL WLVL ELCNGG SVTEL VKGLL RCGKRLDEAV ISYILYGALL GLQLHLCHRI IHRDVKGN NI LLTTEGGV KL VDFGVSAQLT STRLRRNTSV GTPFWMAPEV IACEQQYDSS YDARCDVWSL GITAIELGDG DPPLFEMHPV KMLFKIPRNP PPTLLHPDSW CEEFNHFISQ CLIKDFEGRP SVTHLLDHPF IKG TQGVLC LQKQLAKVLQ DQKHRNPVAK TRHERMHTGR PHRVEDAGKC CLEDDL VNL E VLDEDTIYW LQKRYADALI YTYVGDILIA LNPFQNL SIY SPQFSRLYHG VKRSSNPPHI FASADNAYQC LVTFSKDQCI VISGESGSGK TESAHLIVQH LTFLGKADNQ TLRQKILQVN SLVEAFGNAR TAINDNSSRF GKYLEMMFTP TGAVMGARIS EYLLEKSRVI QQAAGEKNFH IFYYIYAGLY HQKKLAEFRL PEEKPPRYIA GETERVMQDI TSKESYRTQF EAIQHCFKII GFADKEVHSV YRILAGILNI GSIEFAAISS QHQTDKSEVP NPEALENAAC VLCISSEELQ EALTSHCVVT RGETIVRANT VDRAEDVRDA

Product Details

MSKALYGRLF SWIVNRINTL LQPDKNICSA EDMNVGILD IFGFEDFQRN SFEQLCINIA
NEQIYYFNQ HVFALEQMEY KNEGVDVAVL VYEDNRPLLD MFLQKPLGLL ALLDEESRFP
QGTDQTLVDK FEDNLRCKFF WRPKGVELCF GIQHYAGPVL YDASGVLEKN RDTLPADVWV
VLRTSENKLL QQLFSIPLTK TGNLAQTRAK ITASSRSLPP HFSAGRAKVD TLEVIRHPEE
TTNMKRQTMA SYFRYSLMDL LSKMVGQPH FIRCIPNDD RKALQFSQDR VLAQLRSTGI
LETVSIRRQG YSHRIFFEF VKRYYYLAFR AHQTPPANKE SCVAILEKSR LDHWVLGKTK
VFLKYYHVEQ LNLLLREVMG RVVMLQAYTK GWLGARRYKR AKEKREKGA I TIQSAWRGYD
ARRKLRQSR RRSESEAH IH TVLQTTDPQK YCPDSGGESN RGHEETS RNC PAEADTDGHP
QAQSPPTGCD VTSGHADTAA GYTVAELVA GTDVSPSLVY HTASAHQRLS PCEDSLKPGS
EEGLSQKQRA PRRRCQQPKM LSSPEDTMY Y NQLNGTLEYQ GSQRKPRKLG QIKVLDGEDQ
YYKCLSPGAC APEETHSVHP FFFSSSPRED PFAQH **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.**

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

MYO3B

Target Details

Alternative Name:	Myo3b (MYO3B Products)
Background:	Myosin-IIIb (EC 2.7.11.1),FUNCTION: Probable actin-based motor with a protein kinase activity (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:22264607). {ECO:0000250 UniProtKB:Q8WXR4, ECO:0000269 PubMed:22264607, ECO:0000269 PubMed:26754646}.
Molecular Weight:	148.1 kDa
UniProt:	Q1EG27

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.
Restrictions:	For Research Use only

Handling

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