Datasheet for ABIN7554694

MYO3A Protein (AA 1-1616) (His tag)

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Overview

Quantity:	1 mg
Target:	MYO3A
Protein Characteristics:	AA 1-1616
Origin:	Human
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:	MFPLIGKTII FDNFPDPSDT WEITETIGKG TYGKVFKVLN KKNGQKAAVK ILDPIHDIDE EIEAEYNILK ALSDHPNVVR FYGIYFKKDK VNGDKLWLVL ELCSGGSVTD LVKGFLKRGE RMSEPLIAYI LHEALMGLQH LHNNKTIHRD VKGNNILLTT EGGVKLVDFG VSAQLTSTRH RRNTSVGTPF WMAPEVIACE QQLDTTYDAR CDTWSLGITA IELGDGDPPL ADLHPMRALF KIPRNPPPKL RQPELWSAEF NDFISKCLTK DYEKRPTVSE LLQHKFITQI EGKDVMLQKQ LTEFIGIHQC MGGTEKARRE RIHTKKGNFN RPLISNLKDV DDLATLEILD ENTVSEQLEK CYSRDQIYVY VGDILIALNP FQSLGLYSTK HSKLYIGSKR TASPPHIFAM ADLGYQSMIT YNSDQCIVIS GESGAGKTEN AHLLVQQLTV LGKANNRTLQ EKILQVNNLV EAFGNACTII NDNSSRFGKY LEMKFTSSGA VVGAQISEYL LEKSRVIHQA IGEKNFHIFY YIYAGLAEKK KLAHYKLPEN KPPRYLQNDH LRTVQDIMNN SFYKSQYELI EQCFKVIGFT MEQLGSIYSI LAAILNVGNI EFSSVATEHQ IDKSHISNHT ALENCASLLC IRADELQEAL TSHCVVTRGE

	TIIRPNTVEK ATDVRDAMAK TLYGRLFSWI VNCINSLLKH DSSPSGNGDE LSIGILDIFG FENFKKNSFE QLCINIANEQ IQYYYNQHVF AWEQNEYLNE DVDARVIEYE DNWPLLDMFL QKPMGLLSLL DEESRFPKAT DQTLVEKFEG NLKSQYFWRP KRMELSFGIH HYAGKVLYNA SGFLAKNRDT LPTDIVLLLR SSDNSVIRQL VNHPLTKTGN LPHSKTKNVI NYQMRTSEKL INLAKGDTGE ATRHARETTN MKTQTVASYF RYSLMDLLSK MVVGQPHFVR CIKPNSERQA RKYDKEKVLL QLRYTGILET ARIRRLGFSH RILFANFIKR YYLLCYKSSE EPRMSPDTCA TILEKAGLDN WALGKTKVFL KYYHVEQLNL MRKEAIDKLI LIQACVRAFL CSRRYQKIQE KRKESAIIIQ SAARGHLVRK QRKEIVDMKN TAVTTIQTSD QEFDYKKNFE NTRESFVKKQ AENAISANER FISAPNNKGS VSVVKTSTFK PEEETTNAVE SNNRVYQTPK KMNNVYEEEV KQEFYLVGPE VSPKQKSVKD LEENSNLRKV EKEEAMIQSY YQRYTEERNC EESKAAYLER KAISERPSYP VPWLAENETS FKKTLEPTLS QRSIYQNANS MEKEKKTSVV TQRAPICSQE EGRGRLRHET VKERQVEPVT QAQEEEDKAA VFIQSKYRGY KRRQQLRKDK MSSFKHQRIV TTPTEVARNT HNLYSYPTKH EEINNIKKKD NKDSKATSER EACGLAIFSK QISKLSEEYF ILQKKLNEMI LSQQLKSLYL GVSHHKPINR RVSSQQCLSG VCKGEEPKIL RPPRRPRKPK TLNNPEDSTY YYLLHKSIQE EKRRPRKDSQ GKLLDLEDFY YKEFLPSRSG PKEHSPSLRE RRPQQELQNQ CIKANERCWA AESPEKEEER EPAANPYDFR RLLRKTSQRR RLVQQS **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 mammalien 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

Product Details

Grade:	custom-made

Target Details

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 (PubMed:12032315). 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 (By similarity). {ECO:0000250|UniProtKB:Q8K3H5, ECO:0000269|PubMed:12032315}.
Molecular Weight:	186.2 kDa
UniProt:	Q8NEV4
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.
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