

Product datasheet for RC224962

MYO18A (NM_078471) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO18A (NM_078471) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO18A
Synonyms:	MAJN; MYSPDZ; SP-R210; SPR210
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224962 representing NM_078471 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTAACTAATGAAGAAAGACAAGGACAAAGATGGCGGGCGGAAGGAGAAGAAGGAGAAAAAGGAGA
AAAAGGAGCGGATGTCAGCGGCAGAGCTTCGGAGCCTGGAGGAGATGAGCCTGCGACGTGGCTTCTTCAA
CCTGAACCGCTCCTCAAGCGTGAATCCAAGACGCGCTGGAAATCTCCAACCCCATCCCCAAGGTG
GCCAGCGGCTCTGACCTGCACCTGACTGACATTGACTCCGATAGTAACCGGGCAGCGTCATCCTGGACT
CGGGCCACCTAAGTACAGCCAGCTCCAGCGATGACCTCAAGGGTGAGGAGGTAGCTTCCGTGGCTCGGT
GCTGCAGCGGGCAGCCAAGTTCGGCTCACTGGCCAAGCAGAAGTACAGATGATTGTCAAGCGCTTTTCC
TTCTCCCAGCGTAGCCGGATGAGAGCGCCTCAGAAACCTCGACGCCCTCAGAGCACTCTGCCGCCCTT
CGCCACAGGTGGAGGTGAGGACTCTAGAGGGACAGCTGGTGCAGCATCCTGGCCAGGCATCCCTCGACC
AGGGCACCGATCCCGAGCCCTGAGCTAGTGACTAAAAAGTTCAGTTCGACCTGCGCCTGCCCCCGTG
GTGCCCTGCCCCACCTACCCTCCGGGAGCTGGAGCTGCAACGACGGCCCACTGGAGACTTTGGCTTCT
CCCTGCGGCGACAACCATGCTGGATCGGGGCCCGAGGGCCAGGCCTGTGGCGTGTGGTCCACTTTGC
TGAGCCTGGTGCAGGCACCAAGGACCTGGCCCTGGGCTGGTCCAGGAGATCGACTGGTGGAGATTAAT
GGGCACAATGTGGAGAGCAAGTCCAGGGATGAGATTGTGGAGATGATCCGGCAGTCAGGGACAGCGTGC
GGCTCAAGGTGCAGCCATTCCAGAGCTCAGCGAGCTCAGCAGGAGCTGGCTGCGGAGCGCGAGGGACC
TCGCAGGGAGCCATCCGATGCGAAAACAGAAGAACAGATTGCAGCAGAAGAGGCCTGGAATGAGACGGAG
AAGGTGTGGTGGTCCATAGGGACGGCTTCTCACTGGCCAGTCAACTCAAATCTGAGGAGCTCAACTTGC
CTGAGGGGAAGGTGCGTGTGAAGCTGGACCACGATGGGGCCATCCTGGATGTGGATGAGGATGACGTTGA
GAAGGCTAATGCTCCCTCCTGCGACCGTCTGGAGGATCTGGCCTCACTGGTGTACCTCAATGAGTCCAGC
GTCCTGCACACCTTGGCCAGCGCTATGGCGCTAGCCTGCTGCACACGTATGCTGGCCCCAGCCTGCTGG
TTCTTGGCCCCCGTGGGGCCCTGCTGTGACTCTGAGAAGGTGATGCACATGTTCAAGGGTTGTCGGCG
GGAGGACATGGCACCCACATCTATGCAGTGGCCAGACCGCATACAGGGCGATGCTGATGAGCCGTCAG



[View online >](#)

GATCAGTCAATCATCCTCCTGGGCACTAGTGGCAGTGGCAAGACCACCAGCTGCCAGCATCTGGTGCACT
 ACCTGGCCACCATCGCGGGCATCAGCGGGAACAAGGTGTTTTCTGTGGAGAAGTGGCAGGCTCTGTACAC
 CCTCCTGGAAGCCTTTGGGAACAGCCCCACCATCATTAAATGGCAATGCCACCCGTTCTCCCAGATCCTC
 TCCCTGGACTTTGACCAAGCTGGCCAGGTGGCCTCAGCCTCCATTCAGACAATGCTTCTGGAGAAGCTGC
 GTGTGGCTCGGCGCCAGCCAGTGAAGCCACATCAACGTCTTCTACTACCTGCTGGCCTGTGGGGATGG
 CACCCTCAGGACAGAGCTCCACCTCAACCACTTGGCAGAGAACAATGTGTTTGGGATTGTGCCACTGGCC
 AAGCCTGAGGAAAAGCAGAAGGCAGCTCAGCAGTTTAGTAAGCTGCAGGCGGCCATGAAGTGTGGGCA
 TCTCCCCGATGAACAGAAGGCCTGCTGGTTCATTCTGGCTGCCATCTACCACCTGGGGGCTGCGGGAGC
 CACCAAAGAAGCTGCTGAAGCTGGGCGCAAGCAGTTTGCCCGCCATGAGTGGGCCAGAAGGCTGCGTAC
 CTAAGTGGCTGCAGCCTGGAGGAGCTGTCTCAGCCATCTTCAAGCACCAGCACAAAGGTGGCACCTGTC
 AGCGCTCCACCTCCTTCCGCCAGGGCCCCGAGGAGAGTGGCCTGGGAGATGGGACAGGCCGAAACTGAG
 TGCAGTGGAGTGCCTTGGGGCATGGCGGCCGGCCTCTACAGCGAGCTTTCACCTTCTCGTCTCCCTG
 GTGAATAGGGCTCTCAAGTCCAGCCAGCACTCACTCTGCTCCATGATGATTGTGACACCCCGGGCTTCC
 AGAACCTGAGCAGGGTGGTCCAGCCGCGGAGCCTCCTTTGAGGAGCTGTGCCACAACACACCAAGA
 CCGGCTGCAGAGGCTCTCCACGAGCGCACCTTCTGTCAGGAGTTGGAAGATACAAGGAGGAGAATC
 GAGCTGGCGTTTACGACTTGAACCCCGACGGATGACTCTGTGGCTGCTGTGGACCAGGCTCCCATC
 AGTCCCTGGTCCGCTCGCTGGCCCGCACAGACGAGGCGAGGGGCTGCTCTGGCTATTGGAAGAGGAGGC
 TCTGGTGCAGGGGCCAGTGAAGACACCCTCCTGGAGCGCTTTTCTCCTATTATGGCCCCAGGAAGGT
 GACAAAAAAGGCCAAAGCCCCCTTCTGCACAGCAGCAACACACCACCTTCTCCTGGGCCACAGCCATG
 GCACCAACTGGGTAGAGTACAATGTGACTGGCTGGCTGAACTACACCAAGCAGAACCAGCCACCCAGAA
 TGCCCCCGGCTCCTGCAGGACTCCAGAAAAAATCATCAGCAACCTGTTTCTGGGCGCGCAGGCAGT
 GCCACGGTGTCTCTGGTCCATCGCGGGCTGGAGGGCGGCTCGCAGCTGGCACTGCCCGGGCCACCA
 GCATGCGGAAAACCTTTACCACAGGCATGGCGGCTGTCAAAAAGAAGTCACTGTGCATCCAGTGAAGT
 ACAGGTGAGCGCCCTCATCGACACCATCAAGAAGTCAAAGCTGCATTTTGTGCACTGCTTCTGCTGTA
 GCTGAGGGCTGGGCTGGGAGCCCGTTCGCGCTCCTCCCGCGAGTCAAGCAGCAGCAGTGAAGTGGACC
 TGCCCTCGGAGACCACTGCGAGGCTGGGCTCCTGCAGCTCGACGTGCCCTGCTCCGACCCAGCTCCG
 CGGCTCCCGCTGCTCGATGCCATGCGCATGTACCCCAAGGTTACCCTGACCACATGGTGTTCGAG
 TTCGCGCCCGCTTTGATGCTCTGGCCCGCACCTGACCAAGAAACACGGGCGTAACTACATCGTGGTGG
 ATGAAAGCGGGCAGTGGAGGAGCTGCTGGAGTGTGGATCTGGAGAAGAGCAGCTGCTGCATGGGCT
 GAGCCGGGTGTTCTTCCGGGCGGCACCTTGGCACGGCTGGAGGAGCAGCGGGATGAACAAACCAGCAGG
 AACCTAACCTGTCCAAGCAGCTGCAGGGCTACCTGGCCCGCAGCACTTCAAGAAGAGAAAGATCC
 AGGACCTGGCCATTGCTGTGTACAGAAGAATCAAGAAGAACAAGGGGTGAAGGACTGGCCCTGGTG
 GAAGCTTTTTACCACAGTGAAGCCCTCATCGAAGTACAGCTGTCAAGAGGAGCAGATCCGGAACAAGAC
 GAGGAGATCCAGCAGCTGCGGAGCAAGCTCGAGAAGGCGGAGAAGGAGAGGAACGAGCTGCGGCTCAACA
 GTGACCGGCTGGAGAGCCGGATCTCAGAGCTGACATCGGAGCTGACAGATGAGCGTAACACAGGAGAGTC
 CGCCTCCAGCTGCTGGACGCGGAGACAGCAGAGAGGCTCCGGGCTGAGAAGGAGATGAAGGAAGTGCAG
 ACCCAGTACGATGCACTGAAGAAGCAGATGGAGGTTATGGAATGGAGGTGATGGAGGCCGCTCATCC
 GGGCAGCGGAGATCAACGGGGAAGTGGATGATGATGATGACAGGTGGCGAGTGGCGGCTGAAGTATGAGCG
 GGCTGTGCGGGAGGTGGACTTCAACAAGAAACGGCTCCAGCAGGAGTTTGAAGACAAGCTGGAGGTGGAG
 CAGCAGAACAAGAGGCAGCTGGAACGGCGGCTCGGGGACCTGCAGGCAGATAGTGAAGGAGTCAAGCGGG
 CTCTGCAGCAGCTCAAGAAGAAGTGCCAGCAGTACGCGGCTGAGCTGCAAGACACCAAGCTGCACCTGGA
 GGGCCAGCAGGTCCGCAACCACGAAGTGGAGAAGAAGCAGAGGAGGTTTGAAGTGAAGTCTCGCAGGCG
 CATGAGGAGGCCAGCGGAGAAGCTGCAGCGGAGAAGCTGCAGCGGAGAAGGACATGCTCCTCGCTG
 AGGCTTTCAGCCTGAAGCAGCAACTAGAGGAAAAAGACATGGACATTGCAGGGTTACCCAGAAGGTTGT
 GTCTCTAGAGGACAGCTCCAGGACATTTCTTCCAAGAGTCCAAGGATGAGGCTTCTCTGGCCAAGGTC
 AAGAAACAGCTCCGGGACCTGGAGGCAAAGTCAAGGATCAGGAAGAAGAGCTGGATGAGCAGGCAGGGA
 CCATCCAGATGCTGGAACAGGCCAAGCTGCGTCTGGAGATGGAGATGGAGCGGATGAGACAGACCCATTC
 TAAGGAGATGGAGAGTCCGGATGAGGAGGTGGAGGAGGCCCGGAGTCTGTGAGAGAAGTTAAAACAG
 ATGGAGGTGCAGCTAGAGGAAGAGTATGAGGACAAGCAGAAGGTTCTGCGAGAGAAGCGGGAGCTGGAGG
 GCAAGCTCGCCACCCTCAGCGACCAGGTGAACCGGCGGACTTTGAGTCAAGAGAAGCGGCTGCGGAAGGA
 CCTGAAGCGCACCAAGGCCCTGCTGGCAGATGCCAGCTCATGCTGGACCACCTGAAGAACAGTGTCCC
 AGCAAGCGAGAGATTGCCAGCTCAAGAACCAGCTGGAGGAGTCAAGGTTACCTGTGCGGCAGCCGTGA

AAGCACGAAAGCAATGGAGGTGGAGATCGAAGACCTGCACCTGCAGATTGATGACATCGCCAAAGCCAA
GACAGCGCTGGAGGAGCAGCTGAGCCGCCTTCAGCGTGAGAAGAATGAGATCCAGAACCGGCTGGAGGAA
GATCAGGAAGACATGAACGAATTGATGAAGAAGCACAAGGCTGCCGTGGCTCAGGCTTCCCGGGACCTGG
CTCAGATAAATGATCTCCAAGCTCAGCTAGAAGAAGCCAACAAAGAGAAGCAGGAGCTGCAGGAGAAGCT
ACAAGCCCTCCAGAGCCAGGTGGAGTTCCTGGAGCAGTCCATGGTGGACAAGTCCCTGGTGGAGCAGGCAG
GAAGCTAAGTACGGGAGCTGGAGACACGCCTGGAGTTTAAAAGGACGCAAGTAAAACGGCTGGAGAGCC
TGGCTAGCCGTCTCAAGGAAAACATGGAGAAGCTGACTGAGGAGCGGGATCAGCGCATTGCAGCCGAGAA
CCGGGAGAAGGAACAGAACAAGCGGCTACAGAGGACGCTCCGGGACACCAAGGAGGAGATGGGCGAGCTT
GCCAGGAAGGAGGCCGAGGCGAGCCGCAAGAAGCACGAACTGGAGATGGATCTAGAAAGCCTGGAGGCTG
CTAACCAGAGCCTGCAGGCTGACCTAAAGTTGGCATTCAAGCGCATCGGGGACCTGCAGGCTGCCATTGA
GGATGAGATGGAGAGTGATGAGAATGAGGACCTCATCAACAGTTTGCAGGACATGGTGACAAAGTATCAG
AAAAGAAAGAATAAACTTGAGGGAGACTCTGATGTGGACTCGGAGCTGGAGGACCGTGTGACGGGGTCA
AGTCTGGTTGTCAAAAAACAAGGGACCTTCCAAGGCAGCTTCTGATGATGGCAGCTTAAAGAGTCCAG
CCCCACCAGCTACTGGAAGTCCCTTGCCCTGATCGGTGATGATGAGCAGACCCTCTCGACAACACC
TCCAGACCGGATACTCCACAGTTATCTGAGTGACAGCGACACAGAGGCCAAGCTGACGGAGACTAACG
CA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224962 representing NM_078471
 Red=Cloning site Green=Tags(s)

MFNLMKKDKDKDGGRKEKKEKKEKERMSSAAELRSLEEMSLRRGFFNLNRSSKRESKTRLEISNPIPIKV
 ASGSDLHLTDIDSDSNRGSVILDSGHLSTASSDDLKGEEGSFRGSVLQRAAKFGLAKQNSQMIVKRFS
 FSQSRDEASASETSTPSEHSAAPSPQVEVRTLEGQLVQHPGPGIPRPGHRSRAPELVTKKFPVDLRLPPV
 VPLPPPTLRELELQRRPTGDFGFLRRRTMLDRGPEGQACRRVVFHFAEPGAGTKDLALGLVPGDRLVEIN
 GHNVESKSRDEIVEMIRQSGDSVRLKVQPIPELSELRSWLRSSEGPRREPSDAKTEEQIAAEEAWNETE
 KVVLVHRDGFSLASQLKSEELNLPEGKVRVKLDHDGAILDVEDDDVEKANAPSCDRLEDLASLVYLNES
 VLHTLRQRYGASLLHTYAGPSLLVLGPRGAPAVYSEKVMHMFKGCRRREDMAPHIYAVAQTAYRAMLSRQ
 DQSIILLGSSGSGKTTSCQHLVQYLATIAGISGNKVFVEKQWALYTLLEAFGNSPTIINGNATRFSQL
 SLDFDQAGQVASASIQTMLLEKLRVARRPASEATFNVFYLLACGDGTLRTELHLNHLAENNVFGIVPLA
 KPEEKQKAAQQF SKLQAAMKVLGISPDQKACWFLAAIYHLGAAGATKEAAEAGRQKQFARHEWAQKAA
 LLGCSLEELSSAIFKHQHKGGTLQRSTSFRRQPEESGLGDGTGPKLSALECLEGMAAGLYSEFLTLLVSL
 VNRALKSSQHSLSMMIVDTPGFQNPQQGSGARGASFEELCHNYTQDRLQRLFHERTFVQELERYKEENI
 ELAFDDLEPPTDSSVAAVDQASHQSLVRSRLARTDEARGLLWLLLEEALVPGASEDTLLERLFSYYPQEG
 DKKQSPLLHSSKPHHLLGHSHGTNWVEYNVTGWLNYTKQNPATQNPAPRLQDSQKKIISNLFGRAGS
 ATVLSGSIAGLEGGSQLALRRATSMRKTFTTGMAAVKKKSLCIQMKLQVDALIDTIKSKLHFVHCFPLV
 AEGWAGEPRSSRRVSSSELDLPSGDHCEAGLLQLDVP LLRTQLRGSRLLDAMRMRYRQGYPDHMFSE
 FRRRFVDLAPHLTKKHGRNYIVVDERRAVEELLECLDLEKSSCCMGLSRVFFRAGTLARLEEQRDEQTSR
 NLTLFQAACRGYLARQHFHKKRQIQLAIRCQVQNIKKNKGVKDWPPWKLFTTVPRLIEVQLSEEQIRNKD
 EEIQQLRSKLEKAEKERNELRLNSDRLESRISEL TSEL TDERNTGESASQLLDAETAERLRAEKEMKELQ
 TQYDALKKQMEVMEVMEARLIRAAEINGEVDDDDAGGEWRLKYERAVREVDFTKKRLQEFEDKLEVE
 QQNKRLERRLGDQLQADSEE SQRALQQLKKKQRLTAELQDTKLHLEGQQVRNHELEKKQRRFDSELSQA
 HEEAQREKLQREKLQREKMLLAFAFSLKQLEEKDMDIAGFTQKVVSLEAELQDISSQESKDEASLAKV
 KKQLRDLEAKVKDQEEELDEQAGTIQMLEQAKLRLEMEMERMQRTHSKEMESRDEEVEEARQSCQKLLKQ
 MEVQLEEEYEDKQKVLREKRELEGKLATLSDQVNRDFESEKRLRKDLKRTKALLADAQLMLDHLKNSAP
 SKREIAQLKNQLEESFTCAA AVKARKAMEVEIEDLHLQIDDI AKAKTAL EEQLSRLQREKNEIQNRLEE
 DQEDMNELMKKHKA AVAQASRD LAQINDLQAQLEEKQELQELQALQSQVEFLEQSMVDKSLVSRQ
 EAKIRELETRLEFERTQVKRLESLASRLKENMEKLTEERDQRIAAENREKEQNKRLQRQLRDTKEEMGEL
 ARKEAEASRKKHELEMDLESLEAANQSLQADLKLAFKRIGDLQAAIEDEMESDENEDLINSLQDMVTYQY
 KRKNKLEGSDSDVSELEDRVDGVKSWLSKNKGP SKAASDDGSLKSSSPTS YWKS LAPDRSDDEHDPLDNT
 SRPRYSHSYLSDSDTEAKLTETNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8044_f11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_078471

ORF Size: 6162 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_078471.4](#)

RefSeq Size: 7591 bp

RefSeq ORF: 6165 bp

Locus ID: 399687

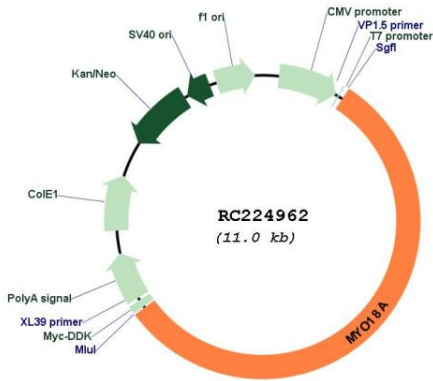
UniProt ID: [Q92614](#)

Cytogenetics: 17q11.2

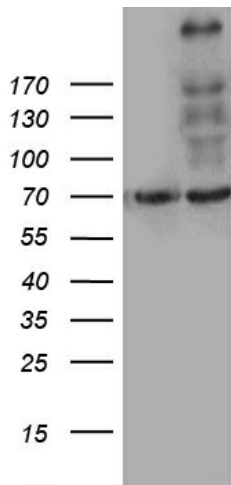
MW: 232.9 kDa

Gene Summary: The protein encoded by this gene can bind GOLPH3, linking the Golgi to the cytoskeleton and influencing Golgi membrane trafficking. The encoded protein is also part of a complex that assembles lamellar actomyosin bundles and may be required for cell migration. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RC224962



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYO18A (Cat# RC224962, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYO18A (Cat# [TA812216])(1:2000).