OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC225377

Myo9a (NM_173018) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo9a (NM_173018) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo9a
Synonyms:	4732465J09Rik; C130068I12Rik; C230003M11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC225377 representing NM_173018
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGTAAGTGATGGAGGAAGACGACGCTTTGAGGATAATGAACACACATTGCGAATATATCCTGGGA
CAATTTCAGAAGGAACAATTTACTGTCCAATTCCTGCCAGAAAAAATTCCACAGCTGCTGAGGTGATTGA
CTCCCTTATAAACAGACTTCACCTAGACAAGACAAAATGCTATGTTTTAGCAGAGGTAAAGGAATTTGGT
GGAGAAGAATGGATACTCAATCCAACCGACTGTCCAGTTCAGCGAATGATGTTGTGGCCCCGAATGGCTT
TGGAAAATCGCTTGAGTGGAGAGGACTACCGTTTTCTTCTGCGAGAAAAAAACCTTGATGGGTCAATTCA
TTATGGTAGCCTCCAATCATGGCTACGGGTAACCGAAGAACGCCGCAGGATGATGGAGCGGGGTTTTCTT
CCACAGCCTCAACAGAAAGACTTTGATGATTTATGTAGCTTGCCTGATTTGAATGAGAAAACTCTCTTAG
AAAACCTACGGAATCGCTTTAAGCATGAAAAAATTTATACTTATGTTGGCAGTATTCTAATAGCTATTAA
TCCATTCAAATTTCTTCCTATTTATAACCCCAAATATGTCAAAATGTATGATAACCACCAGTTGGGAAAA
CTTGAGCCCCACATATATGCTGTGGCAGATGTAGCTTATCATGCGATGCTTCAGCGCAAAAAGAATCAGT
GTATTGTGATTTCAGGAGAGAGTGGTTCTGGGAAGACTCAAAGCACAAACTTTCTTATTCACCACCTTAC
TGCTCTCAGTCAGAAAGGATTTGCCAGTGGAGTAGAACAGATTATTCTTGGAGCTGGACCAGTACTTGAG
GCCTTTGGAAATGCAAAGACAGCTCATAATAACAATTCAAGTCGTTTTGGCAAGTTTATTCAAGTAAATT
ACCAAGAAACAGGCACTGTACTTGGGGCCTATGTTGAAAAATATCTTCTGGAAAAATCTAGACTTGTTTA
TCAAGAGCATAATGAACGGAACTATCATGTATTCTATTACCTTCTCGCAGGAGCAAGTGAGGAAGAGAGG
TTAGCATTCCACCTTAAACAGCCTGAGGAGTACCATTTTCTCAACCAGATAACAAAGAAACCTCTCAGAC
AGAGCTGGGATGATTATTGCTATGATTCTGAGCCGGATTGCTTCACAGTGGAGGGAGAAGATTTGAGGCA
TGACTTTGAACGCTTACAGTTGGCCATGGAAATGGTAGGATTTCTTCCCAAGACACGAAGACAGATTTTC
TCTCTGCTCTCAGCAATACTACATTTGGGTAATATCTCATATAAAAAGAAGACCTATCGGGATGACTCTA
TTGATATCTGTAATCCTGAAGTACTACCCATTGTCTCAGAATTATTAGAAGTTAAAGAAGAGATGCTATT
TGAAGCATTAGTTACAAGGAAGACGGTGACAGTGGGAGAAAAGCTTATTTTACCATATAAACTGGCAGAG
GCTGTGACAGTGAGAAACTCCATGGCTAAGTCTTTATATAGTGCTCTGTTTGACTGGATAGTGTTTCGTA

View online »

TTAATCATGCACTTCTGAATAGTAAAGATTTGGAACAAGATACTAAGACTTTGTCCATTGGTGTTCTTGA
TATTTTTGGGTTTGAAGATTATGAAAACAATAGTTTTGAACAGTTCTGTATTAATTTTGCTAATGAACGT
TTACAGCACTACTTTAATCAGCATATCTTTAAGTTGGAGCAAGAGGAATATAGAACTGAAGGTATCAGTT
GGCATAACATAGATTATATTGATAATACTTGTTGCATAAATCTTATTAGCAAAAAACCAACAGGACTGCT
CCATCTTTTGGATGAAGAAAGCAACTTTCCACAGGCTACAAACCAAACATTACTTGACAAGTTTAAACAT
CAACATGAAGAGAATTCTTACATTGAATTTCCTGCTGTGATGGAGCCTGCTTTTATCATAAAACATTATG
CTGGAAAAGTAAAATATGGAGTAAAGGATTTTCGGGAAAAAAATACAGATCATATGCGTCCAGACATTGT
GGCTCTTCTGAGAAGTAGCAGGAATGCTTTTGTTTCTGGGATGACTGGCATTGATCCTGTAGCTGTTTTC
CGATGGGCAGTTCTTCGAGCATTTTTCAGAGCTGTGGTTGCTTTCAGGGAAGCTGGGAAAAGACATATTC
AGAGAAAAAGTGGACATGATGATACAACACCATGTGCGATTTTGAAAAGTATGGATAGTTTTAGCTTTCT
CCAACACCCAGTCCACCAGAGGAGCTTAGAGATTCTGCAGAGGTGCAAGGAAGAGAAGTACAGTATAACC
CGAAAAAACCCAAGAACACCCCTTTCTGATCTTCAAGGCATGAACACTCTAAATGAAAAAAATCAACATG
ACACATTTGATATTGCCTGGAATGTCAGAACTGGCATTCGCCAAAGCAGACTACCAGCTAGCAATACTTC
CTTGCTTGATAAAGATGGGATATTCGCTCATTCAGCAAGCAGCAAACTCCTGGAAAGAGCTCATGGAATT
CTCACGAGAAACAAAAATTTCCGGTCAAAACCTGTTCTTCCAAAGCATTTGCTGGAGGTAAATTCTTTGA
AGCATCTGACAAGACTGACCCTTCAGGATCGAATTACCAAATCTCTTCTTCATTTGCACAAGAAGAAGAA
ACCTCCCAGTATCAGCGCTCAGTTTCAGGCCTCCTTAAGCAAGCTGATGGAGACACTTGGTCAAGCAGAA
CCATATTTTGTAAAATGTATTCGCTCAAATGCTGAAAAGCTGCCGTTAAGATTCAGTGATGCCTTGGTAC
TAAGACAGCTTCGGTACACTGGGATGCTGGAAACAGTTAGAATTCGCCAATCTGGATATAGCTCCAAATA
TTCTTTCCAGGATTTTGTTAGCCACTTTCATGTACTTCTTCCTCAACATATTATTCCATCTAAATTTAAT
ATTCAAGATTTCTTCAGAAAAATAAATATTAATTCTGATAATTATCAAGTTGGAAAAACCATGGTTTTCC
TAAAGGAGCATGAACGACAGCACTTACAAGATCTGCTTCATCAGGAAGTGCTTCGCAGAATCGTACTGTT
GCAACGGTGGTTTAGGGTCTTGCTCTCTAGGCAGCAGTTCCTTCATTTGAGACAGGCATCTATTATTATT
CAGCGATTTTGGAGGAATTACCTAAATCAGAAGCAAGTCAGAAATGCGGCTGTGGAGAAAGATGCTTTCA
TAATGGCTAGTGCAGCTTCCCTTCTTCAGGCATCCTGGCGTGCTCACTTAGAGAGGCAACGGTACTTGGA
ATTACGAGCTGCAGCTGTCATTATCCAGCAGAGATGGAGGGAACTCTATAGGTGTAGGCACAAGGCTGCT
ACCTGTATACAATCAAGATGGAGGGGCTACAGGCAAAGGAAGAAGTACAAAGAACAAAGGAATAAAATTA
TCCTGTTACAGTCAATATATAGAGGATTCCGAGCACGGCAAAGATGTAATGCTTTAAAAGAGGAAAAGCT
GAGAGAAGCAAAACTAGAGCATGGACTGGTGCATGTCAAGGCATGTGGACCTCTAGAAATCCAGGGTTCA
GATCCTTCTGAGTGGGAGGATCGTTCCTTTGACAACAGAGTGAAAGCCATAGAAGAATGTAAATATGTGA
TAGAGAGTAATCGAATTAGCCGTGAGAGTTCAATGGACTTCTCAAAGGAGTCTCCAGACAAGCAACAGGA
GAGAGGCAGACGCCAAAGTGGTACAGACTTACAGGAAGATGTGATTGTAAGACAGAGGCCCAAGTCCTTG
GAGGATCTACATCAGAAAAAAGTAGGTCGGGCCAAAAGAGAAAGTCGGAGAATGAGAGAATTAGAGCAAG
CTATATTTAGCTTAGAATTACTGAAAGTCCGTTCTCTTGGTGGCATGTCTCCTTCAGAGGAACGTAGATG
GTCTACAGAATTGATGCCTGAAGGCCTTCAATCTCCACATGGTACTCCTGATAGTGAGAGCTCTCAAGGG
AGCTTAGAACTTTTGACCTGTGATGAGAACCAAAAGAGCAAACCAGAGTCTCTCATTTTAGATGAGGGAG
AATTGAAAATTTCATCACCCAATACATTTACCAATCCAAAATCACAAGATAATGCCCTCAGTGCCTCAAG
TGAGACAAGCTCTACATTAGCTGGAAAAGGAGCATCCTCTGACTCAGAGCATTTGAAGAATGGGACTGCA
AAGGAAAAGCTTGTCTGTAGTTCTGAACCTATCACCTGTAAACCCCAGCTGAGAGACTCTTTTGTTTCAA
GCAGTCTGCCTACATTTTTTTATATTCCTCATCAAGAAGCTCTGAAAACAAGTTCCCATCTTGACACAAG
TATCCAAAGAAACAAACTACCAGAAAGAGAAGCCATTTTGAAGACGACTCTTACTCAGGATATTAACAGA
GAAGCCAGGAAGTGTCAGTTTTCAGGAGATCAGATGACTCCTTTGAATACGGATTCTTCATGCACTGTGC
TTAAGAAGTTAGAAAAGCTGAATATTGAAAAAGAGAAAAGGCAAAAGCAGTTACAACAGCAGAATGAAAA
AGAAATGATGGAACAGATTCGTCAGCAGACAGATATTTTAGAGAAGGAACGTAAGGCCTTCAAGACAATT
GAACAGTCACGAACTGAGGCCTCTGTCTTGGCACCATCCTTTTATCAGCCAAGACAAAAAGTAGAGAGGC
CATGTTCTCTGTATATCCAGAATACTCCGAGTAAAGGAGAAGCTGGTGTACTAGGTTCCCCATCAGCAGT
CACTAAAAGAGACGCAGCTCTTGCCACAAAAGATAGTCCCTCCATTCATTTACCCCCAAAAGACCGACCT
GTCACCCTGTTCTTTGAAAAAAAAGGAAGCCCATGCCAATCTAGAACTGTCAAGGAATTACCGAAGACAG
AAAGAACGGGCACCCAACATGATGCTGCCTATAAACTCTCTAATAATCGCAGTACAGAAAGAGACCACTT
TAAGTCAACACACTTTTACAGCCACAGATCTGATGACCCTTCCAGAGAGGGAAGTTCAAGAGCCATTTTT
TTCACACCAAAAGACAATATTACTCCCCTTGTACACAGTGGAAATCCTCAAGCCCACAAACAAGATGAAT
CAGCTTGGAAACCTAAGTTAGCAGGGCCCGGGCAACAAGAGGTTGCCAGACCGGCCCATAAAAAGAAAGC

TCGAATGGCGCGGACGCGCTCCGATTTCTTGACTAGAGGTACTTTTGCCGAAGGGGAGGGGGATACAGAG
GAAGATGATTACGATGACATTATTGAGCCCCTTCTCTCCCTTGACCAAGCTTCTCACTCTGAGCTAGGGC
CTGTATCCAGCCTGGGTCAGGCCTCTCACAGTGACTCCGAAATGACATCACAACGATTTTCTTCAGTTGA
TGAGCAAGCAAAGCTCCATAAGGCTATGTCTCAAGGAGAGATTACAAAATTGGCAGTAAGACAGAAGGCT
TCAGATTTGGACATAAGACCCCAGAGAGCGAAGATGAGATTCTGGGCCAAAGGGAAACAAGGAGAGAAGA
AGACAACTAGAGTAAAACCTGCTTCCCAGTCGGAGATCTCATCATTCTTTCCTGGCCCAGATGTGACACC
TGCTCATCCATTTTCTGACGAGTTAACTCAGTACCACCCAACACCTCCTTTGAGTCCAGAACTGCCTGGG
AGTTGTCGAAAAGAGTTCAAAGAGAATAAGGAACCTTCTCCAAAGGCAAAGCGCAAGAGAGGTGTAAAAA
TCAGCAGTGTGGCCTTGGACTCTATGCATTGGCAAAATGACTCTGTCCAAATCATAGCAAGTGCCAGTGA
TTTAAAAAGTATGGATGAGTTTCTTCTGAAAAAGATGAATGACCTAGATAATGAAGACAGCAAGAAGGAT
ACATTAGTGGATGTTGTATTTAAAAAAGCCCTGAAAGAATTTCGGCAGAATATCTTCAGCTCTTATTCAT
CTGCATTGGCGATGGATGATGGGAAAAGCATCCGCTATAAAGACCTATATGCGCTATTTGAACAGATTCT
GGAAAAAACCATGAGATTGGAGCAACGTGATTGGAATGAATCTCCAGTGAGAGTTTGGGTTAACACTTTT
AAGGTGTTTTTAGATGAATACATGAATGAATTCAAGACTTTGGATAGCACAGCCCCAAAGGTGCTTAAAA
CAGAAAGAAAGAAAAGGAGGAAAAAGGAAACCGATTTGGTGGAAGAGCACAATGGCCACATCTTTAAGGC
CACCCAGTATAGCATCCCTACATACTGTGAATACTGTTCTTCCTTGATATGGATAATGGACAGAGCCTCT
GTTTGCAAATTGTGTAAGTACGCTTGCCATAAGAAGTGCTGCCTAAAAACCACAGCCAAGTGTTCTAAGA
AGTATGATCCAGAGCTGTCATCTCGGCAATTTGGGGTTGAGCTGTCCCGTTTGACTAGTGAAGACCGAGC
TGTTCCTTTAGTGGTAGAGAAGCTCATAAACTATATTGAAATGCATGGACTTTATACTGAAGGTATTTAC
CGAAAGTCTGGTTCAACTAATAAAATCAAGGAGCTTCGACAAGGTCTAGATACAGATGCTGAAAGTGTAA
ACCTAGATGACTATAACATACATGTCATTGCAAGTGTATTCAAACAATGGCTTCGTGATTTGCCCAATCC
ACTCATGACTTTTGAACTCTATGAAGAATTCCTTCGAGCTATGGGCCTTCAGGAAAGAAAAGAGACAATC
CGTGGTGTGTACTCTGTAATTGATCAGCTCTCCCGAACTCATCTCAATACACTGGAACGCCTTATCTTTC
ATCTAGTTAGGATTGCTCTACAGGAAGACACTAATCGAATGTCTGCTAATGCTTTGGCCATTGTGTTTGC
ACCTTGCATTCTCCGTTGCCCTGACACTACTGACCCACTACAAAGTGTACAAGATATCAGTAAGACTACC
ACATGTGTGGAGCTGATAGTGGTAGAACAAATGAATAAATATAAGGCTCGTCTCAAAGACATCAGTAGCC
TGGAATTTGCTGAAAATAAAGCAAAGACCAGACTGTCACTGATTCGTAGATCAATGAAACCTGTACTAAT
TGCAGTTAGATTTATGAGCATTACCCGCAGTTCAGTCTCGGGAAAGGGGCGTATACACCGAGGAAACTAT
CCAAGTCCATCTTCCCCTGTTATAGTCCGATTGCCTTCCATGTCTGATGTCCCAGAAGAGACCTTGTCTA
GTGAGACAGCCATGGAAACTGACCTCACAGACCAGCAGCAAGCAGCAATGCAGCAGGAGGAAAAAGTACT
GACTGAGCAGATTGAGAACCTACAGAAAGAAAAGGAAGAACTAACATTTGAGATGCTTGTATTGGAACCT
CGTGCCTCTGATGATGAAACCCTTGAATCTGAGGCTTCTATTGGGACTGCTGATAGTTCGGAAAATTTGA
ATATGGATTCTGAAGAGAGAAGTTTAGCCCTTAGCTCCCTGAAAGCAGCTGGCAAGTCTGAACCTTCAAG
CAAGTCGCGGAAGCAGCTAAGAAAGCAGCCAGACTCTCTAGACTCCGTCAGCTCCTCCGTTTCTTCATGT
CTATCAAACACTACATCATCTCATGGCACTAGAAAGCGATTTCAGATTTATTCCAAGTCTCCATTTTACC
GAGCTGCTTCAGCTTGTGAGGCCCAGGGAACGGAAGGACCGCTAGGCCAAGCCAAATCCCTAGAAGACAG
GCCTCAGTTCATCAGCAGAGGAACCTTCAACCCTGAAAAGGGCAAACAAAAACTAAAGAATGTGAAAAAC
TCACCTCAGAAAACCAAAGAGACCCCAGAGGGGACAGTCACATCTGGCCGAAAGAAAACTGTGGACTCAG
ACTGCAGCTCCACACAGCAACTACCACTGTTTGGAAATAATGAGTTTATGGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173018

Insert Size: 7896 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_173018.2, NP_766606.2
RefSeq Size:	11974 bp
RefSeq ORF:	7896 bp
Locus ID:	270163
Cytogenetics:	9 32.13 cM
Gene Summary:	Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Regulates Rho by stimulating it's GTPase activity in neurons. Required for the regulation of neurite branching and motor neuron axon guidance (PubMed:27259756).[UniProtKB/Swiss-Prot Function]