

## Product datasheet for **MC225079**

### Myh9 (NM\_022410) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh9 (NM\_022410) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myh9  
**Synonyms:** Fltn; Myhn-1; Myhn1; NMHCIIA; NMMHC-A; NMMHC-IIA; TU72.6  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225079 representing NM\_022410  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCAGCAGGCTGCAGACAAGTACCTCTATGTGGATAAAAACCTTCATCAATAACCCGCTGGCCCAAG  
 CTGACTGGGCTGCCAAGAAGTTGGTATGGGTGCCTTCCAGCAAGAATGGCTTTGAACCAGCTAGCCTCAA  
 GGAGGAGTGGGAGAAGAGGCCATTGTAGAGCTGGTAGAGAATGGGAAGAAGGTGAAGGTGAACAAGGAC  
 GACATCCAGAAGATGAACCCACCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACG  
 AAGCTTCGGTGTGCACAACTCAAGGAGCGATACTACTCAGGGCTTATCTACACCTATTAGGCCTGTT  
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 AAGAAGAGGCACGAGATGCCACCCACATCTACGCCATCAGATACTGCCTACCGGAGCATGATGCAGG  
 ACCGGGAAGATCAGTCCATCCTGTGCACGGGGAGTCTGGAGCAGGAAGACAGAGAACACCAAGAAAGT  
 CATCCAGTACCTGGCACATGTGGCTCCTCACACAAGAGCAAGAAGACCAGGGGGAGTTGGAGCGGCAG  
 CTGCTACAGGCCAACCTATCCTAGAGGCCTTTGAAACGCCAAGACGGTGAAGAATGACAACCTCCTCTC  
 GATTCGGTAAATTCATTCTGATCAACTTTGATGTCAATGGCTACATTGTTGGTGCCAACATTGAGACTTA  
 TCTTCTGGAGAAATCTCGTGTATCCGCCAAGCCAAAGAGGAGCGGACCTTCCACATCTTCTACTACCTG  
 CTGTCTGGGGCCGGAGAACACCTGAAGACTGATCTCCTGTTGGAGCCATAACAATAACCGCTTCTGT  
 CCAACGGGCACGTCAACATCCCTGGGCAGCAGGACAAGGACATGTTCCAGGAGACAATGGAGGCCATGAG  
 AATTATGGGCATCCAGAGGATGAGCAGATGGCTTGCTGCGGGTCACTCTGGGGTCTTCAGCTTGGC  
 AACATTGCCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCGACAACACAGCTGCTCAAAGG  
 TGTCCACCTCCTGGGATCAATGTGACCGACTTACCAGAGGCATCCTCACCCACGCATCAAGGTGGG  
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 GAGTACCAGCGAGAGGGCATCGAGTGGAACCTTCATCGACTTCGGCCTGGACCTGCAGCCCTGCATCGACC



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TCATTGAGAAGCCGGCGGGTCCCCAGGCATCCTGGCCCTGCTAGATGAGGAGTGTGGTTTCCTAAGGC  
CACTGACAAGAGCTTCGTGGAGAAGGTGGTGCAGGAGCAGGGCACCCACCCCAAGTTCAGAAGCCCAAG  
CAACTGAAGGACAAGGCTGATTTCTGCATTATCCACTATGCCGGCAAGGTGGACTATAAAGCTGACGAGT  
GGCTGATGAAGAACATGGACCCCTTGAACGACAACATCGCCACGCTGCTTACCAGTCTCAGACAAAGT  
TGTCTCTGAGCTGTGGAAGGATGGATCGGATCATTGGCTTGGACCAAGTGGCTGGAATGTCCGAGACA  
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TTCAGCGAGGAGAGCGGTGCGAACCGAACTGGCCGACAAGGTACCAAGCTGCAGGTTGAACTGGACA  
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GTCCCAGCTTTCAGGACACACAGGAGTGTCTCCAGGAGGAGAACCAGGAGAGCTGAGCCTGAGCACAAG  
CTCAAGCAGATGGAGGATGAGAAAACTCCTTCAGGGAGCAGCTGGAGGAGGAGGAGGAGGCCAAGCGCA  
ACTTGGAGAAGCAGATCGCCACGCTCCATGCCAGGTGACCGACATGAAGAAGAAGATGGAGGACGGTGT  
AGGGTGCCTGGAGACTGCAGAGGAGGCGAAGCGGAGGCTTCAAGGACTTGAAGGCCTGAGCCAGCGG  
CTTGAGGAGAAGGTGGCTGCCTACGATAAGCTGGAGAAGACCAAGACACGCTGCAGCAGGAGCTGGACG  
ACCTGCTGGTTGACCTGGACCACAGCGGAGAGCGTCTCCAACCTGGAAGAAGAAGCAGAAGAAGTTCGA  
CCAGCTCCTAGCCGAGGAGAAGACCATCTCGGCCAAGTATGCAGAGGAGCGTGACCGAGCTGAGGCTGAG  
GCCCGTGAAGAAGGAGACAAGGGCCTATCACTGGCCCGGGCGCTTGGAGGAGGAGGAGGAGGAGGAGGAG  
AGCTGGAGCGGCTCAACAAGCAGTTCGCGCAGGAGATGGAGGACCTCATGAGCTCCAAGGATGACGTGGG  
CAAGAGTGTCCACGAGCTGGAGAAGTCCAAGCGGGCCTTGGAGCAGCAGGTGGAGGAGATGAAGACCCAG  
CTGGAGGAGCTGGAGGATGAGCTGCAGGCCACGGAGGATGCCAAGCTCCGCTGGAGGTGAACCTGCAGG  
CCATGAAGGCCAGTTTGAAGCGGATCTGCAGGGCCGGGATGAACAGAGCGAGGAGAAGAAGAAGCAGCT  
GGTCAGACAGGTGCGGGAGATGGAGGCGGAGCTGGAGGATGAGAGGAAGCAGCGTCCATGGCCATGGCC  
GCACGCAAGAACTGGAGATGGATCTGAAGGACCTGGAGGCACACATTGACACAGCAATAGAAGCCGGG  
AAGAGGCCATCAAACAGCTGCGGAAGCTTCAAGGCCAGATGAAGGACTGCATGCGGGAGCTGGACGACAC  
GCGCGCTCCCGGGAGGAGATCCTGGCGCAGGCCAAGGAGAATGAGAAGAAGCTGAAGAGCATGGAGGCC  
GAGATGATTACGCTGCAGGAGGAACTGGCAGCTGCTGAGCGTGTAAAGCTCAGGCCAACAGGAACGGG  
ACGAGCTGGTGTGAGATCGCCAACAGCAGTGGCAAAGGGGCCCTAGCATTAGAGGAGAAGCGGCGACT

GGAGGCCCGCATTGCCAGCTGGAGGAGGAGCTGGAGGAGGAACAGGGCAACACGGAGCTGATCAACGAT  
CGGCTGAAGAAGGCCAACCTGCAGATCGACAAATAAACACCGACCTGAACCTGGAACGCAGCCACGCAC  
AGAAGAATGAGAAATGCGCGCAGCAGCTGGAACGCCAGAACAAGGAGCTCAAGGCCAAGCTGCAGGAAAT  
GGAGAGTGCTGTCAAGTCCAAATACAAGGCCTCCATCGCGGCCTTGGAGGCCAAAATTGCACAGCTGGAG  
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TGAAGGACGTGCTGCTGCAGGTGGAGGACGAGCGGAGGAACCGGAACAGTTCAAGGACCAGGCTGACAA  
GGCGTCCACCCGCTGAAGCAGCTTAAACGGCAGCTAGAGGAGGCTGAAGAGGAGGCCAGCGGGCCAAT  
GCCTCACGCCGGAAGCTGCAGCGTGAGCTGGAAGATGCCACAGAGACCGCTGATGCTATGAACCGGAGG  
TCAGCTCCCTGAAGAACAACTGAGGCGTGGGGACCTGCCATTTGTCGTGACTCGCCGAATTGTTGGAA  
AGGCACTGGCGACTGCTCAGACGAGGAGGTCGACGGTAAAGCAGATGGGGCCGATGCCAAGGCAGCTGAA  
TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_022410
<b>Insert Size:</b>	5883 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022410.3</a> , <a href="#">NP_071855.2</a>
<b>RefSeq Size:</b>	7439 bp
<b>RefSeq ORF:</b>	5883 bp
<b>Locus ID:</b>	17886
<b>UniProt ID:</b>	<a href="#">Q8VDD5</a>
<b>Cytogenetics:</b>	15 36.81 cM
<b>Gene Summary:</b>	During cell spreading, plays an important role in cytoskeleton reorganization, focal contacts formation (in the margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10 (By similarity). Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping.[UniProtKB/Swiss-Prot Function]