

## Product datasheet for **MC225095**

### Myh10 (NM\_175260) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myh10 (NM_175260) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myh10
Synonyms:	5730504C04Rik; 9330167F11Rik; Fltn; mKIAA3005; Myhn-2; Myhn2; NMHC-B; NMHC II-B; NMHCII-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225095 representing NM_175260 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCAGAGAAGCTGGACTGGAGGATCCCGAGAGGTATCTCTTTGTGGACAGGGCTGTCATCTACAACC  
CTGCCACTCAAGCTGACTGGACAGCTAAAAAGCTGGTGTGGATCCATCGGAACGCCATGGTTTTGAGGC  
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ATGTTTCATCCTGGAGCAGGAGGAGTACCAGCGAGAGGGCATCGAGTGGAACCTTTATCGACTTCGGCCTGG  
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GACACGCAGAGCAGGAGCGAGACGAGCTGGCTGATGAGATCGCCAACAGCGCCTCTGAAAAGTCTGCGCT  
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 TTCAAGCCGATCTGGCCGCGCCAGCTGCACATTGAGGGGGCATCGCTAGAGCTGTGAGTACGACACACA  
 GAAAGTAAGACCAGTGTCAATGACACACAGCCACCCCAATCAGAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_175260
<b>Insert Size:</b>	5931 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_175260.2</a> , <a href="#">NP_780469.1</a>
<b>RefSeq Size:</b>	7783 bp
<b>RefSeq ORF:</b>	5931 bp
<b>Locus ID:</b>	77579
<b>UniProt ID:</b>	<a href="#">Q61879</a>
<b>Cytogenetics:</b>	11 41.95 cM

**Gene Summary:**

Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. During cell spreading, plays an important role in cytoskeleton reorganization, focal contacts formation (in the central part but not the margins of spreading cells), and lamellipodial extension; this function is mechanically antagonized by MYH9 (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]