

## Product datasheet for **MC225051**

### Myh7 (NM\_080728) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh7 (NM\_080728) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myh7  
**Synonyms:** B-MHC; beta-MHC; Myhc-b; MyHC-l; Myhcb  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC225051 representing NM\_080728  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGATGCAGAGATGGCTGCATTTGGGGCTGCAGCCCCCTTCTGCGGAAGTCTGAGAAGGAGAGGC  
 TGGAGGCACAGACCAGGCCCTTTGACCTCAAGAAAGATGTTTTGTGCCCGATGACAAAGAAGAGTTTGT  
 CAAGGCCAAGATCGTGTCCCGAGAGGGTGGCAAAGTCACTGCTGAGACGGAGAATGGCAAGACGGTGACT  
 GTGAAGGAGGACCAGGTGATGCAGCAGAACCCACCCAAGTTCGACAAGATCGAGGACATGGCCATGCTGA  
 CCTTCTGCATGAGCCGGCTGTGCTGTACAACCTCAAGGAGCGCTACGCTTCTGGATGATCTATACCTA  
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 GCCTACCGGGCAAGAAGAGGAGCGAGGCCCTCCTCACATCTTCTCCATCTCTGACAACGCCTATCAGT  
 ACATGCTGACAGATCGGGAGAATCAGTCCATCCTCATCACCAGGAGAATCCGGAGCTGGGAAGACTGTCAA  
 CACTAAGAGGGTCAATATTTTGTGTTATTGCCGCCATTGGGGACCGCAGCAAGAAGGACCAGACC  
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 CTTGATTTCAACAGCTTTGAGCAGCTGTGCATCAACTCACCAATGAGAAGCTGCAGCAGTTCTTCAAC



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CACCACATGTTCTGCTGGAGCAGGAGGAGTACAAGAAGGAGGGCATTGAGTGGACCTTCATAGACTTCG  
GCATGGACTTGCAGGCTGCATTGACCTCATCGAGAAGCCATGGGCATCATGTCCATCCTTGAGGAGGA  
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GCACTGTGGACTACAATATCCTGGGCTGGCTACAGAAGAACAAGGACCCACTCAATGAGACGGTGGTGGG  
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ATATACACAGCAGCTGGAGGACCTCAAGAGGCAACTGGAGGAGGAGGTCAAGGCCAAGAACGCGCTGGCC  
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AGGCTGAGCTACAGCGAGTCTGTCCAAGGCCAATTGAGAGTGGCCAGTGGAGGACCAAGTATGAGAC  
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GAGGAGGCAAGTGGAGGCTGTCAATGCCAAGTGTCTCTCTGGAGAAGACCAAGCACAGGCTGCAGAATG  
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GAACTTTGACAAGATCCTGGCTGAGTGGAAAGCAGAAGTATGAGGAGTTCGAGTCAAGAGCTGGAGTCTTCC  
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ACCTAGAGACCTTCAAGCGGGAGAACAAGAACCTCCAGGAGGAGATCTCAGACCTGACTGAGCAGCTGGG  
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CAGTCGGCCCTGGAGGAGCTGAGGCTCCCTGGAGCACGAGGAGGCAAGATCTCCGCGCCAGCTAG  
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GCCCTGCGGGTGAAGAAGAAGATGGAGGGCGACCTCAACGAGATGGAGATCCAGCTCAGCCATGCCAAC  
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GGATGATGCTGTCCGTGCAATGACGACCTGAAAGAGAACATCGCCATCGTGAACGGCGCAACAACCTG  
CTCAGGCGGAGCTGGAGGAGCTTCGGCTGTGGTGGAGCAGACGGAGCGGTCTCGGAAGCTGGCAGAGC

AGGAGCTGATTGAGACCAGCGAGCGGGTGCAGCTGCTGCACTCGCAGAACACCAGCCTCATCAACCAGAA  
 GAAGAAGATGGATGCAGACCTATCCCAGCTCCAGACAGAAGTAGAGGAGGCAGTGCAGGAGTGTAGGAAC  
 GCAGAGGAGAAGGCCAAGAAGGCTATCACAGATGCCGCCATGATGGCTGAGGAGCTGAAGAAGGAGCAGG  
 ACACCAGCGCCCACCTGGAGCGCATGAAGAAGAACATGGAGCAGACCATCAAGGACTTGCAGCACCGTCT  
 GGACGAGGCAGAGCAGATCGCCCTCAAGGGCGGCAAGAAGCAGCTGCAGAAGCTGGAGGCCCGGGTCCGG  
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 AGCGGCGCATCAAGGAGCTCACCTACCAGACAGGGAAGACAGGAAGAACCTACTGCGGCTGCAGGACCT  
 GGTGGACAAGCTGCAGCTGAAGGTGAAGGCTACAAGCGCCAGGCTGAGGAGGCGGAGGAGCAGGCCAAC  
 ACCAACCTGTCCAAGTTCGCAAGGTGCAGCACAGCTGGATGAGGCGGAGGAGGGCGGACATCGCCG  
 AGTCCCAGGTCAACAAGCTGCGGGCCAAGAGCCGGGACATTGGTGCCAAGGGCTGAATGAGGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_080728
- Insert Size:** 5808 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\\_080728.2](#), [NP\\_542766.1](#)
- RefSeq Size:** 6054 bp
- RefSeq ORF:** 5808 bp
- Locus ID:** 140781
- UniProt ID:** [Q91Z83](#)
- Cytogenetics:** 14 28.01 cM
- Gene Summary:** Myosins are actin-based motor molecules with ATPase activity essential for muscle contraction. Forms regular bipolar thick filaments that, together with actin thin filaments, constitute the fundamental contractile unit of skeletal and cardiac muscle.[UniProtKB/Swiss-Prot Function]