

## Product datasheet for **MC225060**

### Myh2 (NM\_001039545) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh2 (NM\_001039545) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myh2  
**Synonyms:** MHC2A; Myh2a; MyHC-IIa; Myhs-f; Myhs-f1; Myhsf1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225060 representing NM\_001039545  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCCGACGCCGAGATGGCCGTTTTCGGGGAGGCTGCCCTTACCTCCGGAAGTCCGAAAAGGAGC  
 GAATCGAGGCCAGAATAGGCCTTTTGATGCCAAAACATCTGTCTTTGTGGCGGAGCCCAAGGAATCCTT  
 TGTCAAAGGAACCATTTCAGAGCAAAGATGCAGGAAAAGTACTGTGAAAACAGAAGCAGGAGCGACCTG  
 ACCGTGAAAGAAGACCAGATCTTCCCATGAACCTCCCAAGTACGACAAGATCGAGGACATGGCCATGA  
 TGACCCACCTGCACGAGCCCGCTGTGCTGTACAACCTCAAAGAGCGTTATGCAGCCTGGATGATCTACAC  
 CTACTCAGGCCTCTTCTGTGCACCGTCAACCTTACAAATGGCTGCCGGTGTACAACCCCGAGGTGGT  
 GCGGCCTATCGAGGCAAAAAGCGCCAGGAGGCCCGCCACATCTTCTCCATCTCTGATAACGCCTACC  
 AGTTCATGCTAACAGACAGGGAGAATCAGTCAATCCTGATCACCAGGAGAAATCCGGGGCCGGGAAGACTGT  
 GAACACGAAGCGTGTATCCAGTACTTTGCAACAATTGCAGTCACTGGGGACAAGAAGAAGGAGGAGGCA  
 ACTTCTGGCAAAATGCAGGGGACGCTGGAGGACCAATCATCAGTGCCAACCCCTGTGGAGGCCCTTTG  
 GGACGCCAAGACCGTGAGGAATGACAACCTCGTCTCGTTTGGTAAATTCATCAGGATCCACTTTGGCCT  
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 TGACCAGGAAGAGCTGATGGCCACTGATAGTGCTATCGACATTTTGGGCTTTACAAATGATGAAAAAGTC  
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 GAGCAGGTGACCAATGCTGTGGGTGCCCTGGCCAAGGCCATGTATGAGAAGATGTTCTGTGGATGGTCA  
 CCGCATCAACCAGCAGCTGGACACCAAGCAGCCCGGCAGTACTTCATCGGGGTCTTGACATCGCTGG  
 CTTTGAGATCTTTGATTTCAACAGCCTGGAACAGCTGTGCATCAACTTACCAATGAGAACTGCAACAG  
 TTTTCAACCACCACATGTTCTGTGCTGGAGCAGGAGGAATACAAGAAGGAGGGCATCGAGTGGACCTTCA



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TCGACTTCGGGATGGACCTGGCGCCTGCATCGAGCTCATCGAGAAGCCGATGGGCATCTTCTCCATCCT  
 GGAAGAGGAGTGCATGTTCCCTAAGCGCAGACACCTCCTTCAAGAACAAGCTGTATGAGCAGCATCTT  
 GGAAAGTCTGCCAACTTCCAGAAGCCTAAGGTGGTCAAAGGCAAGGCCGAAGCCACTTCTCCCTCATCC  
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 CGTGGTGGGGCTGTACCAGAAGTCTTCAAGTAAACTCTGGCTTATCTCTTCTCTGGGGCACAACCTGCT  
 GAAGCAGAGGCAAGTGTGGTGGAGCTGCCAAGAAAGGTGCCAAGAAGAAGGGGTCTCTTTTCAGACCG  
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 GACCAGGTGAGTGAAGTCAAGGAGGAGGAAACAGCAGCGACTGATCAACGACCTGACAACCCAGA  
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 GTTATCAAGGGGGAAGCAAGCATTCACTCAACAGATTGAGGAGCTAAAGAGGCAGCTTGAAGAGGAAGTA  
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 ACGAGGAGGAGCAGGAGTCTAAGGCTGAACTGCAGAGGGCGCTGTCCAAGGCCAACAGCGAGGTGGCCCA  
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 GCTCAGCGTCTGCAGCGGCTGAGGAGCACGTAGAAGCCGTGAACGCCAAGTGGCTTCTCTGGAGAAGA  
 CGAAGCAGCGGCTGCAGAACGAGGTGGAGGACCTCATGCTGGATGTGGAGAGGACCAACGCTGCTTGTGC  
 CGCCCTGGACAAGAAGCAGAGAAAACCTCGACAAGATCCTGGCAGAGTGGAAAGCAGAAGTATGAGGAAACC  
 CACGCTGAGCTCGAGGCATCCCAGAAGGAGGCCGCTCCCTGGGCACTGAGCTCTTCAAGATGAAGAATG  
 CCTACGAGGAGTCTCTGGATCAGCTAGAAAACCTGAAGCGAGAGAATAAGAACTTACAGCAGGAGATTTT  
 TGACCTCACGGAACAGATTGCAGAAGGAGGAAAGCGCATCCACGAAGTGGAGAAAATTAAGAAAACAGTC  
 GAACAAGAGAAGTGTGAACCTCAGGCTGCTCTAGAAGAAGCAGAGGCATCTCTGGAGCACGAGGAGGAA  
 AGATCTGCGCATCCAGCTGGAGCTGAACCAAGTCAAGTCTGAGATCGACAGGAAGATTGCTGAGAAGGA  
 TGAGGAGATCGACCAGCTGAAGAGAAAACACATTAGAGTCTGGAGTCCATGCAGAGCACGCTGGATGCC  
 GAGATCAGGAGCAGGAACGACGCCATCAGAATCAAGAAGAAGATGGAGGGAGACCTGAACGAGATGGAAA  
 TCCAGCTGAACCACTCCAACCGCATGGCTGCCGAGGCCCTGAGAAAACACAGGAACACACAAAGGCATCCT  
 CAAGGACACCCAGTTGCACCTGGACGATGCTCTCCGGGGCCAGGAGGACCTGAAGGAGCAGCTGGCCATG  
 GTTGAGCGCAGAGCCAACCTGCTGCAGGCTGAGATCGAGGAGCTGCGGGCCACGCTGGAGCAGACGGAGA  
 GGAGCAGGAAGATTGCAGAGCAGGAGCTGCTGGACGCCAGTGAGCGCGTGCAGCTCTCCACACCCAGAA

CACCAGCCTCATCAACACCAAGAAGAAGCTGGAGACAGACATTTCCCAAATCCAGGGAGAGATGGAGGAC  
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 AGGAGCTGAAGAAGGAGCAGGACACTAGCGCCACCTGGAGCGGATGAAGAAGAACATGGAGCAGACCGT  
 GAAGGACCTGCAGCTGCGTCTGGATGAGGCTGAGCAGCTGGCGTGAAGGGCGGCAAGAAGCAGATCCAG  
 AAAGTGGAGGCCAGGGTGCCTGAACTGGAGGGTGAAGTGAAGAGTGAAGCAGAAGCGGAATGCTGAGGCCG  
 TCAAAGGTCTGCGCAAACACGAGAGACGAGTGAAGGAGCTTACTACCAGACAGAAGAAGACCGAAAAAA  
 TATTCTCAGGCTTCAGGATTTGGTGGATAAACTCCAGGCAAAAGTAAAATCTTACAAGAGACAAGCTGAG  
 GAGGCTGAGGAACAATCCAACACAAATCTATCCAAGTTCGCAAGATCCAGCACGAGCTGGAGGAAGCCG  
 AGGAGCGGGCTGACATCGCGGAGTCCCAGGTCAACAAGCTGCGGGTGAAGAGCCGGGAGTTACACCAA  
 AATCATAAGCGAAGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001039545
- Insert Size:** 5829 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\_001039545.2, NP\_001034634.2
- RefSeq Size:** 6083 bp
- RefSeq ORF:** 5829 bp
- Locus ID:** 17882
- Cytogenetics:** 11 40.59 cM