

Product datasheet for **MC229692**

Myh14 (NM_001271540) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myh14 (NM_001271540) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myh14
Synonyms:	2400004E04Rik; II-C; NHMCII; NMHC II-C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229692 representing NM_001271540 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTGCAGTGACCATGTCCGTGTCTGGGAGGAAGGTAGCCTCCAGGCCAGGCCGGTGCCTGAGGCAG
CCCAATCGTTCCTCTACGCGCCCGGACGCCAAATGTAGGTGGCCCTGGAGGGCCACAGGTGGAGTGGAC
AGCCCGGCGCATGGTGTGGGTGCCCTCGGAAGTGCATGGGTTGAGGCAGCAGCCCTGCGGGATGAAGGG
GAGGAGGAGGCAGAAGTGGAGCTGGCGGAGAGTGGCGCCGCCTGCGGCTGCCAGGGACCAGATCCAGC
GCATGAACCCACCAAGTTCAGCAAGGCAGAAGATATGGCTGAGCTCACCTGCCTCAACGAGGCCTCGGT
CCTGCACAACCTGCGAGAACGCTACTACTCCGGGCTCATTTATACCTACTCTGGCCTCTTCTGTGTGGTC
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ATGAGGTGCCACCTCACGTGTATGCTGTGACGGAGGGCGGTACCGCAGCATGCTTCAGGATCGTGAGGA
TCAATCCATTCTGACGCGGAGAGTCTGGCGCTGGGAAGACGGAGAACACCAAGAAGGTATCCAGTAC
CTGGCCCATGTGGCATCATCTCCAAAGGGCAGGAAGGAGCCTGGTGTCCCTGCCTCCGTGAGCACCATGT
CTTATGGGGAGCTAGAGCGTCAGCTTCTCAAGCCAACCCATCCTAGAAGCCTTTGGCAATGCCAAGAC
GGTGAAGAACGACAACCTTCCCGATTGGCAAATTCATCCGCATCAACTTTGATATTGCTGGCTACATC
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CTGCTGTCCCTCCAGTTTGGCAACATTGCTCCTGAAGAAAGAGCGCAATACGGACCAAGCCACCATGCCTGA
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CTGAACTCCTTCGAGCAGCTGTGCATCAACTACACCAACGAGAAGCTACAGCAGCTATTCAACCACCA
 TGTTTCGTGCTGGAGCAGGAGGATACCAGCGAGAGGGCATCCCCTGGACCTTCTAGACTTCGGGTTGGA
 CCTGCAACCTTGCATCGACCTCATTGAGCGTCCGGCAACCTCCAGGTCTCCTGGCCCTGCTGGACGAG
 GAGTGTGGTTCCCAAGGCCACGACAAGTCTTTTGTGGAGAAGGTTGCCAGGAGCAGGGCAGCCACC
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 GGAGTTGGAGGCCCTACGTGGGAGCTCGAGGACTCTGGATTCCACCAACGCCAGCAGGAGCTGCGG
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 GGCGGAACTTGAGAGCGTGTCCACAGCCCTGAGTGAGGCGGAGTCCAAGCCATCAGGCTGGGCAAGGAG
 CTGAGCAGTGCAGAGTCCAGCTGCATGACACCCAGGAAGTCTCAGGAGGAGACCAGGGCAAAGCTGG
 CCTTGGGGTCCCGTGTGCGTGCCTAGAGGCCGAGGCGCGGGGCTTCCGGAGCAGATGGAAGAGGAGGT
 GGTTGCCAGGGAACGGGCTGGCCGGGAGCTGCAGAGCACGCAGGCCAGCTCTCTGAATGGCGGGCCGCGC
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 GCAGGAGTTGGACGATGCCACTGTGGATCTGGGCGAGCAGAAGCAGCTCCTGAGCACACTGGAGAAGAAG
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 GGAGGCCCGGAGGAGCTGGAGAGGCAGAACCCTGCTCTGAGGGCTGAGCTGGAAGCACTGCTGAGCAGC
 AAGGATGACGTGGCAAGAACGTGCACGAGCTGGAGCGAGCCGTAAGGCGGCTGAACAGGCAGCCAGTG
 ACCTGCGGACACAGGTGACAGAATTGGAGGATGAGCTGACAGCCGAGAGGATGCCAAGCTGCGCCTGGA
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 AGGCGGAGGACGCTGGCCAAGCAGCTAAGAGACGAGAGGTAGAGCGCGATGAGGAACGGAAGCAGAGGG
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 TGGGCAGGGCAAGGAAGAGGAGTGAAGCAGCTGAAGAAGATGCAGGTCCAGATGAAGGAGCTGTGGCGG
 GAGGTAGAGGAGACGCGTAGCTCCCGCAGCAGATGTTTACCCTGAGCAGGGAAAATGAGAAGAAGCTCA

AGGGGCTGGAAGCTGAGGTGCTGCGTCTGCAAGAGGAACCTTGCTGCCTCAGACCCGAGCCCGGAGGCAGGC
 CCAGCAAGACAGAGACGAGATGGCAGAGGAGGTGGCCAGTGGCAATCTTAGCAAGGCAGCCACCCTGGAG
 GAAAAACGGCAGCTGGAGGGGCGACTGAGCCAGTTGGAAGAGGAGCTGGAGGAAGAACAACAACCTCGG
 AGCTGCTCAAGGACCATACCGAAAGCTAGTGTACAGGTCGAGTCCCTCACCACAGAAGTGTCTGCCGA
 ACGAAGTTTCTCAGCCAAGGCCGAGAGTGGACGGCAGCAGCTGGAGCGGCAGATCCAGGAACTGCCGGCC
 CGCTTGGGTGAAGAGGATGCTGGAGCCCGAGCCAGGCAGAAAAATGCTGATCGCTGCTGGAGTCTAAAC
 TGGCCAGGCAGAGGAGCAGCTGGAGCAGGAGAGCAGGGAGCGCATCTCTGGCAAGCTGGTACGCAG
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 GACCAGCTGGAGAAAAGCAACCTCCGGCTGAAGCAGCTCAAGAGGCAGCTGGAGGAGGCAGAGGAGGAGG
 CATCTCGGGCACAGGCTGGTCGGAGGCGGCTGCAGCGGGAGCTGGAGGACGTCAGTCTGCAGAATC
 CATGAACCGGGAGGTGACCACGCTGAGGAACAGGCTCCGGCGTGGCCACTTACATTACCACACGGACT
 GTGCGCCAGGTGTTCCGGCTGGAAGAGGGCGTGGCTTCTGACGAGGAAGAGGCTGAAGGAGCTGAACCTG
 GCTCTGCACCAGGCCAGGAGCCGAGGCTCCGCCCTGCCACACCCCAATGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001271540
- Insert Size:** 6003 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001271540.1](#), [NP_001258469.1](#)
- RefSeq Size:** 6457 bp
- RefSeq ORF:** 6003 bp
- Locus ID:** 71960
- UniProt ID:** [Q6URW6](#)
- Cytogenetics:** 7 B3

Gene Summary:

Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.