

## Product datasheet for **MC225105**

### Myh14 (NM\_028021) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh14 (NM\_028021) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myh14  
**Synonyms:** 2400004E04Rik; II-C; NHMCII; NMHC II-C  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225105 representing NM\_028021  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGCTGCAGTGACCATGTCCGTGTCTGGGAGGAAGGTAGCCTCCAGGCCAGGCCGGTGCCTGAGGCAG  
 CCCAATCGTTCCTCTACGCGCCCCGGACGCCAAATGTAGGTGGCCCTGGAGGGCCACAGGTGGAGTGGAC  
 AGCCCGGCGCATGGTGTGGTGCCTCGGAAGTGCATGGGTTTCGAGGCAGCAGCCCTGCGGGATGAAGGG  
 GAGGAGGAGGCAGAAGTGGAGCTGGCGGAGAGTGGCGCGCCCTGCGGCTGCCAGGGACAGATCCAGC  
 GCATGAACCCACCCAAGTTCAGCAAGGCAGAAGATATGGCTGAGCTCACCTGCCTCAACGAGGCCTCGGT  
 CCTGCACAACCTGCGAGAACGCTACTACTCCGGGCTCATTATACCTACTCTGGCCTCTTCTGTGTGGTC  
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 ATGAGGTGCCACCTCACGTGTATGCTGTGACGGAGGGCGGTACCGCAGCATGCTTCAGGATCGTGAGGA  
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ACCAGCGAGAGGGCATCCCCTGGACCTCCTAGACTTCGGGTTGGACCTGCAACCTTGCATCGACCTCAT  
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 GATGAAGAACATGGACCCACTGAATGACAATGTGGCCGCTTGCCTCACCAGAGCAGGATCGTCTCACA  
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 TAGAGGCCGAGGCGGGGGCTTCGGGAGCAGATGGAAGAGGAGGTGGTTGCCAGGGAACGGGCTGGCCG  
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 GAGCTGGGGAGGAGGCTCGGCCCGTGCAGCCGGGAGGCAGAGACCCTGACCCAGCCCTGGCAGAAA  
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 GGATCTGGGGCAGCAGAAGCAGCTCCTGAGCACACTGGAGAAGAAGCAGCGGAAATTTGACCAGCTCCTG  
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 GAGAGGCCCGGGCCCTGTGCTGACCCGGGCCGGAAGAGGAGCAGGAGGCCCGGGAGGAGCTGGAGAG  
 GCAGAACCCTGCTCTGAGGGCTGAGCTGGAAGCACTGCTGAGCAGCAAGGATGACGTGGCAAGAAGCTG  
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 CGCGACGAGATGTTTACCCTGAGCAGGGAAAAATGAGAAGAAGCTCAAGGGGCTGGAAGCTGAGGTGCTGC  
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AGAGGAGGTGGCCAGTGGCAATCTTAGCAAGGCAGCCACCCTGGAGGAAAAACGGCAGCTGGAGGGGCGA
CTGAGCCAGTTGGAAGAGGAGCTGGAGGAAGAACAACAACCTCGGAGCTGCTCAAGGACCATTACCGAA
AGCTAGTGCTACAGGTCGAGTCCCTCACCACAGAAGTGTCTGCCGAACGAAGTTTCTCAGCCAAGGCCGA
GAGTGGACGGCAGCAGCTGGAGCGGCAGATCCAGGAAGTGCAGGCGCCGCTTGGGTGAAGAGGATGCTGGA
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AGCAGGAGAGCAGGGAGCGCATCCTCTCTGGCAAGCTGGTACGCAGAGCTGAGAAGCGGCTGAAGGAGGT
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CGGCTGAAGCAGCTCAAGAGGCAGCTGGAGGAGGCAGAGGAGGAGGCATCTCGGGCACAGGCTGGTCGGA
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AGGCTCCGCCCTGCCACACCCCAATGA
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
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<b>Restriction Sites:</b>	Sgfl-RsrII
<b>ACCN:</b>	NM_028021
<b>Insert Size:</b>	5979 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_028021.3</a> , <a href="#">NP_082297.1</a>
<b>RefSeq Size:</b>	6392 bp
<b>RefSeq ORF:</b>	5979 bp
<b>Locus ID:</b>	71960
<b>UniProt ID:</b>	<a href="#">Q6URW6</a>
<b>Cytogenetics:</b>	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 (3) lacks an exon in the coding region, compared to variant 1.

This results in a shorter protein (isoform 3), compared to 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.