

Product datasheet for **SC315974**

Myosin 1C (MYO1C) (NM_001080950) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin 1C (MYO1C) (NM_001080950) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO1C
Synonyms:	MMI-beta; MM1b; myr2; NMI
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001080950, the custom clone sequence may differ by one or more nucleotides

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ATGCGCTACCGGGCGTCGGCCCTGGGCAGTGACGGGGTTCGGGTGACCATGGAGAGTGCG
CTCACCGCCCGTGACCGGTGGGGTGCAGGATTCGTGCTGCTGGAGAATTCACCAGC
GAGGCCGCTTCATCGAGAACCTGCGGCGGCGATTCGGGAGAATCTCATCTACACCTAC
ATTGGCCCGTCTGGTCTCTGTCAATCCCTACCGGGACCTGCAGATCTACAGCCGGCAG
CATATGGAGCGTTACCGTGGCGTCAGCTTCTATGAAGTGGCCCTCACCTGTTTGCCGTG
GCGGACACTGTGTACCGAGCACTGCGCACGGAGCGTCGGGACCAGGCTGTGATGATCTCT
GGGAGAGCGGGCAGGCAAGACCGAGGCCACCAAGAGGCTGCTGCAGTTCTATGCAGAG
ACCTGCCAGCCCCGAGCGCGGAGGTGCCGTGCGGGACCGGCTGCTACAGAGCAACCCG
GTGCTGGAGGCCTTTGGAATGCAAGACCTCCGGAACGATAACTCCAGCAGGTTCCGGG
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TACCTCCTGGAAGGTCACGAGTGGTGCACCAGAAATCATGGGGAGCGGAACTTCCACATC
TTCTACCAGCTGCTGGAGGGGGCGAGGAGGAGACTCTTCGCAGGCTGGGCTTGGAAACGG
AACCCCAAGAGCTACCTGTACCTGGTGAAGGGCCAGTGTGCCAAAGTCTCCTCCATCAAC
GACAAGAGTGACTGGAAGTCTGTCAGGAAGGCTCTGACAGTCATTGATTCACCGAGGAT
GAAGTGGAGGACCTGCTGAGCATCGTGGCCAGCGTCCTTCATTTGGCAACATCCACTTT
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GCCCTCGCAAGGCTGTGTACAGCCGCACTTTTACCTGGCTCGTCGGGAAGATCAACAGG
TCGCTGGCCTCAAGGACGTGGAGAGCCCCAGCTGGCGGAGCACCACGGTTCTCGGGCTC
CTGGATTTTATGGCTTTGAAGTGTTCAGCATAACAGCTTTGAGCAGTTCTGCATCAAT
TACTGCAACGAGAAGCTGCAGCAGCTTTCATCGAGCTCACGCTCAAGTCGGAGCAGGAG
GAGTACGAGGCAGAGGGCATCGCTGGGAGCCCCGTCAGTATTTCAACAACAAAATCATC
TGTGATCTGGTGGAGGAGAAGTTTAAGGGCATCATCTCGATTTTGGATGAGGAGTGTCTG
CGCCCCGGGAGGCCACAGACCTGACCTTCTGGAGAAGCTGGAGGATACTGTCAAGCAC
CATCCACACTTCTGACGCACAAGCTGGCTGACCAGCGGACCAGGAAATCTCTGGGCCGA
GGGGAATTCGCCCTTCTGCACTATGCGGGGGAGGTGACCTACAGCGTGACCGGGTTTCTG
GACAAAAACAATGACCTTCTCTCCGGAACCTTAAGGAGACCATGTGTAGCTCAAAGAAT
CCCATTATGAGCCAGTGCTTTGACCGGAGCGAGCTCAGTGACAAGAAGCGCCAGAGACG

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GTCGCCACCCAGTTCAAGATGAGCCTCCTGCAGCTGGTGGAGATCCTGCAGTCTAAGGAG
CCCGCCTACGTCCTGCATCAAACCAATGATGCCAAACAGCCCGCCGCTTTGACGAG
GTGCTGATCCGCCACCAGGTGAAGTACCTGGGGCTGTTGGAAAACCTGCGCGTGCGCAGA
GCCGGCTTTGCCTATCGCCGCAAATACGAAGCTTCTGCAAAGGTACAAGTCACTGTGC
CCAGAGACGTGGCCACGTGGGCAGGACGGCCGAGGATGGGGTGGTGTGCTGGTCCGA
CACCTGGGCTACAAGCCAGAAGAGTACAAGATGGGCAGGACCAAGATCTTCATCCGCTTC
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TCAGCCATCTGCATCCAGTCGTGGTGGCGTGGAACACTGGGCCGGAGGAAGGCAGCCAAG
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CCCCGCTGCCCGAGAACGCCTTCTTCTGGACCATGTGCGCACCTTTTTTTGTAAAC
CTGAGGCGGCAGCTGCCCGAATGTCCTGGACACCTCGTGGCCACGCCCCACCTGCC
CTGCGTGAGGCCCTCAGAGCTTCTCGGGAGTTGTGCATAAAGAACATGGTGTGGAATAC
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ATCTTCAAGGGCAAGAAGGATAATTACCCTCAGAGTGTACCCAGGCTCTTCATCAGCACT
CGGCTTGGTACAGATGAGATCAGCCCCGAGTGTGCAGGCCCTGGGCTCTGAGCCATT
CAGTATGCGGTGCTGTTGTGAAATACGACCGCAAGGGCTACAAGCCTCGCTCCCGGCAG
CTGCTGCTCACGCCAACGCCGTCGTCATCGTGGAGGACGCCAAAGTCAAGCAGAGGATT
GATTACGCCAACCTGACCGGAATCTCTGTGACGACCTGAGCGCAGTCTTTTTGTGCTT
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ATTGAGACGCTGACCAAGACAGCCCTCAGTGCCAACCGGTGAACAGCATCAACATCAAC
CAGGGCAGCATCACGTTTGCAGGGGGCCCGGCAGGATGGCACCATTGACTTACACCC
GGCTCGGAGCTGCTCATACCAAGGCCAAGAACGGGCACCTGGCTGTGGTCCGCCACGG
CTGAATTCTCGG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001080950
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001080950.1](#), [NP_001074419.1](#)
- RefSeq Size:** 4742 bp

RefSeq ORF: 3135 bp

Locus ID: 4641

UniProt ID: [O00159](#)

Cytogenetics: 17p13.3

Gene Summary: This gene encodes a member of the unconventional myosin protein family, which are actin-based molecular motors. The protein is found in the cytoplasm, and one isoform with a unique N-terminus is also found in the nucleus. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. The mouse ortholog of this protein also functions in intracellular vesicle transport to the plasma membrane. Multiple transcript variants encoding different isoforms have been found for this gene. The related gene myosin IE has been referred to as myosin IC in the literature, but it is a distinct locus on chromosome 19. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' CDS, compared to variant 1. The resulting isoform (b) has a shorter and unique N-terminus when compared to isoform a. This isoform is also known as nuclear myosin I.