

## Product datasheet for **SC315975**

### Myosin 1C (MYO1C) (NM\_001080779) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myosin 1C (MYO1C) (NM\_001080779) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Myosin 1C  
**Synonyms:** MMI-beta; MMIb; myr2; NMI  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001080779 edited  
AGAGGCCTCCCAGTCAGACCTGGACGGCTCCAGCCGTGTCCTGAGGAGCTGGACCAGCCA  
CATCCCCTGGGGCTGCAGTTGAAGCAGAACCAAGTGCCATCCCAGCGTTAGACCGTAGG  
TTCCTGGTCCCGAGTGGTCGGAGCCCGCAGTGGGCAGGCAGCTCTTGCTCACAGGCCG  
CGGTGCCAGGCCGCTGGCTCTCCGCAGGGCGGAATGGCGCTGCAAGTGAGCTGGTACC  
CACCGGGGAGATCATCCGCGTGGTTCATCCCCACAGGCCCTGCAAGCTTGCCCTGGGCG  
TGACGGGGTTCGGGTGACCATGGAGAGTGCCTCACCGCCGTGACCGGGTGGGGTGCA  
GGATTTCTGTGCTGCTGGAGAATTCACCAGCGAGGCCCTTCATCGAGAACCTGCGGCG  
GCGATTTCTGGGAGAATCTCATCTACACCTACATTGGCCCCGTCTGGTCTGTCAATCC  
CTACCGGGACCTGCAGATCTACAGCCGGCAGCATATGGAGCGTTACCGTGGCGTCAGCTT  
CTATGAAGTGCCCTCACCTGTTTCCCGTGGCGGACACTGTGTACCGAGCACTGCGCAC  
GGAGCGTCGGGACCAGGCTGTGATGATCTCTGGGAGAGCGGGCAGGCAAGACCGAGGC  
CACCAAGAGGCTGCTGCAGTTCTATGCAGAGACCTGCCAGCCCCGAGCGCGGAGGTGC  
CGTGCGGGACCGCTGCTACAGAGCAACCCGGTCTGGAGGCCTTTGAAATGCCAAGAC  
CCTCCGGAACGATAAECTCCAGCAGGTTCCGGAAGTACATGGATGTGCAGTTTGACTTCAA  
GGGTGCCCCGTGGGTGGCCACATCCTCAGTTACCTCCTGGAAAAGTACAGAGTGGTGCA  
CCAGAATCATGGGAGCGGAACCTCCACATCTTCTACCAGCTGCTGGAGGGGGCGAGGA  
GGAGACTCTTCGACAGGCTGGGCTTGAACGGAACCCCCAGAGCTACCTGTACCTGGTGAA  
GGGCCAGTGTGCCAAAGTCTCCTCCATCAACGACAAGAGTGAAGTGAAGGTCGTACAGGAA  
GGCTCTGACAGTCATTGATTTACCGAGGATGAAGTGGAGGACCTGCTGAGCATCGTGCC  
CAGCGTCTTTCATTTGGGCAACATCCACTTTGCTGCCAACGAGGAGAGCAATGCCAGGT  
CACCACCGAGAACCAGCTCAAGTATCTGACCAGGCTCCTCAGCGTGAAGGCTCGACGCT  
GCGAGAAGCCCTGACACACAGGAAGATCATCGCCAAGGGGAGGAGCTCCTGAGCCCGCT  
GAACCTGGAGCAGGCCGCTACGCACGAGACGCCCTCGCCAAGGCTGTGTACAGCCGCAC  
TTTTACCTGGCTCGTGGGAAGATCAACAGGTCGCTGGCTCCAAGGACGTGGAGAGCCC  
CAGCTGGCGGAGCACCAGGTTCTCGGGCTCCTGGATATTTATGGCTTTGAAGTGTTC  
GCATAACAGCTTTGAGCAGTTCTGCATCAATTACTGCAACGAGAAGCTGCAGCAGCTCTT



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CATCGAGCTCACGCTCAAGTCGGAGCAGGAGGAGTACGAGGCAGAGGGCATCGCGTGGGA  
 GCCCGTCCAGTATTTCAACAACAAAATCATCTGTGATCTGGTGGAGGAGAAGTTTAAAGG  
 CATCATCTCGATTTTGGATGAGGAGTGTCTGCGCCCGGGGAGGCCACAGACCTGACCTT  
 CCTGGAGAAGCTGGAGGATACTGTCAAGCACCATCCACACTTCTGACGCACAAGCTGGC  
 TGACCAGCGGACCAGGAAATCTCTGGGCCGAGGGGAATCCGCTTCTGCACTATGCGGG  
 GGAGGTGACCTACAGCGTGACCGGGTTTCTGGACAAAAACAATGACCTTCTCTCCGGAA  
 CCTTAAGGAGACCATGTGTAGCTCAAAGAATCCCATTATGAGCCAGTGCTTTGACCGGAG  
 CGAGCTCAGTGACAAGAAGCGGCCAGAGACGGTCGCCACCCAGTTCAAGATGAGCCTCCT  
 GCAGCTGGTGGAGATCCTGCAGTCTAAGGAGCCCGCCTACGTCCGCTGCATCAAACCCAA  
 TGATGCCAAACAGCCCGCCGCTTTGACGAGGTGCTGATCCGCCACCAGGTGAAGTACCT  
 GGGGCTGTTGGAAAACCTGCGCTGCGCAGAGCCGGCTTTGCCTATCGCCGCAAATACGA  
 AGCTTCTCTGCAAAGGTACAAGTCACTGTGCCAGAGACGTGGCCACGTGGGCAGGACG  
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 GATGGGCAGGACCAAGATCTTCATCCGCTTCCCAAGACCCTGTTTGCCACAGAGGATGC  
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 CTGGCGGCAGAAATTCCTCCGGGTGAAGAGATCAGCCATCTGCATCCAGTCGTGGTGGCG  
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 GCTCATCCGAGGCTTCATCCTGCGCCACGCCCCCGCTGCCCGAGAAGCCCTTCTTCT  
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 GGACACCTCGTGGCCACGCCCCACCTGCCCTGCGTGAGGCCTCAGAGCTTCTGCGGGA  
 GTTGTGCATAAAGAACATGGTGTGGAATACTGCCGGAGTATCAGCCCTGAGTGGAAAGCA  
 GCAGCTGCAGCAGAAGGCCGTGGCTAGTGAGATCTTCAAGGGCAAGAAGGATAATTACCC  
 TCAGAGTGTACCCAGGCTTTCATCAGCACTCGGCTTGGTACAGATGAGATCAGCCCCCG  
 AGTGCTGCAGGCCCTTGGGCTCTGAGCCATTAGTATGCGGTGCCTGTTGTGAAATACGA  
 CCGCAAGGGCTACAAGCCTCGCTCCCGGCAGCTGCTGCTCACGCCCAACGCCGTCGTCAT  
 CGTGGAGGACGCCAAAGTCAAGCAGAGGATTGATTACGCCAACCTGACCGGAATCTCTGT  
 CAGCAGCTGAGCGACAGTCTTTTTGTGCTTCATGTACAGCGTCCGACAAATAAGCAAAA  
 GGGAGATGTGGTGTGTCAGAGTGACCACGTGATTGAGACGCTGACCAAGACAGCCCTCAG  
 TGCCAACCGCGTGAACAGCATCAACATCAACCAGGGCAGCATCACGTTTGACGGGGGCC  
 CGGCAGGGATGGCACCATTGACTTCACACCCGGCTCGGAGCTGCTCATACCAAGGCCAA  
 GAACGGGCACCTGGCTGTGGTGCAGCCACGGCTGAATTCTCGGTGATAAAGGCGCCCACT  
 GGACCCTCCCAACGCCCAATGCTTTGCTTTTCTCCTCCTCCCTCCAGTTACCAAAAGA  
 CTGCAACTTCCAGACAGGGACCCAGGGACACCCGAAGGCCACCTGCAATCTCCACCTC  
 CTGCCATCCCTCTTTGAGGGAGCAGCAGGGGCCAGGAGCTACCCAGGAGTGGGCCAG  
 GCCGGGCCACAGCAATAGGAAAGCCAGGGCCAGAGCGAGCCATGCCAGCCCTACTGCCGA  
 TGCCAAATATTTGAGAGAAGGGAACTTTTGCTGAGGTTTTCTCTGAGGTTTTTTGATGC  
 TTTATAGGAAACTATTTTTTAAAAAAGCCATTTCCACCCAAGGACACAGTGGATGTGT  
 TTTCCCTGACTCCAGCAGGGCAAGGAATGTAGCCGAGAGGTTGTGTGGCTGGGCTCTGG  
 TGCCCTTCCCTGGCCAGGACACCTCTCCTCCTGATTCCCTTGGCACCTTGTCTTTCTG  
 TCTGTTTACCTGTCTCCCTGCCTGCCATCTGCATCTTTTGCAGCCCACTCTGACTTCCA  
 TCTGGGGGCTGAGACCACCTTGCTGCCCCCTTCTTTCTGCCTTAAGAATGTCCTTTTA  
 GGCTGGGCATGGTGGCTCACGCCTGTAACCCAGCACTTTGGGAGGCGGAGACGGGCAGA  
 TAACCTGAGGTGAGGATTTGAGACCAACCTGACCTACATGGAGAAACTCCGCCTTAGT  
 AAAAATACAAAATTAGCCGGGCATGGTGGTGCACGCCTTAATCCAGCTACTCGGGAGG  
 CTGAGGCAGGAGAATCACTTGAACCCGGGAAGTGGAGGTTGCAGTGAGCCAAGAGTACAC  
 CACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCGTCTTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001080779  
**Insert Size:** 4300 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM\_001080779.1.

**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\\_001080779.1](#), [NP\\_001074248.1](#)

**RefSeq Size:** 4973 bp

**RefSeq ORF:** 3192 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 (1) represents the longest transcript and encodes the longest isoform (a).