

## Product datasheet for MR211481

### Myo1c (NM\_008659) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myo1c (NM_008659) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myo1c
Synonyms:	C80397; mm1bet; mm1beta; MM1b; MYO1E; myr; myr2; NMI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211481 representing NM_008659 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGAGCGCCTTGACTGCCGAGACCGGGTAGGGTGCAGGACTTTGCTCTGCTGGAGAATTTACCA  
GTGAGGCTGCCTTCATTGAGAACCTCCGGCGCGGTTCCGGGAGAACCTCATTTATACCTACATCGGTCC  
TGTCTAGTCTGTCAATCCCTACCGAGACCTACAGTCTACAGCCGGCAGCATATGGAACGCTACCGT  
GGTGTCACTTTCTATGAAGTACCACCTCATTTGTTTGCAGTGGCTGACACTGTATACCGGCACTTCGTA  
CTGAGCGTCGGGACCAGGCAGTGATGATTTCTGGAGAGAGTGGGGCAGGCAAGACAGAGGCCACCAAGAG  
ACTGCTCCAGTTCTATGCAGAGACCTGCCAGCCCTGAACGGGGTGGCGCAGTGCAGAGCCGCTGTTG  
CAGAGCAACCCCGTGTAGAGGCCCTTTGGGAATGCCAAGACTCTCCGCAACGATAACTCCAGCCGGTTTG  
GAAAGTACATGGATGTGCAGTTTGACTTCAAGGGTGCCCCCGTGGGAGGCCACATTTCTCAGTTACCTCCT  
GGAAAAGTCCCGGGTGGTGCACCAAAAATCACGGAGAGCGGAACCTCCACGTCTTTTACCAGCTACTGGAG  
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AGGGCCAGTGTGCCAAGGTCTCCTCCATCAACGACAAGAGTACTGGAAGGTTATGAGGAAGGCGCTGTC  
CGTCATTGACTTCACTGAGGATGAAGTGGAGGACTTGTCTCAGCATCGTGGCCAGCGTCTACATCTGGGC  
AACATCCACTTTGCTGCTGACGAGGACAGCAATGCCAGGTTACTACTGAGAACCAGCTCAAATATCTGA  
CCAGGCTCCTTGGTGTGGAAGGTACAACACTTAGGGAAGCCCTGACCCACAGGAAGATCATCGCCAAGGG  
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TACAGCCGGACATTCACCTGGCTGGTCAGAAAGATCAATAGGTCACTGGCCTCTAAGGACGCTGAGAGCC  
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GGAGGCCACGGACCTGACCTTTCTGGAGAAGTTGGAGGACTGTCAAGCCCCACCTCACTTCTGACG



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CACAAGCTCGCTGACCAGAAGACCAGGAAATCTCTAGACCGAGGGGAGTCCGCCTTCTGCATTATGCTG  
 GAGAGGTGACCTACAGTGTGACTGGGTTTCTGGATAAAAAACAATGACCTCCTCTCCGGAACCTGAAGGA  
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 CACGGCTTGGCACAGAGGAGATCAGCCCAAGTGTCTCAATCCTTGGGCTCTGAACCCATCCAGTATGC  
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 CGGGCTCAGAGCTTCTCATCACAAGGTAAGAATGGCCACCTGGCTGTGGTGGCCCCACGGCTGAATTC  
 TCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211481 representing NM\_008659  
 Red=Cloning site Green=Tags(s)

MESALTARDRVGVQDFVLEENFTSEAAFIENLRRRFRENLIYTYIGPVLVSVNRYRDLQIYSRQHMER  
 YR GVSFYEVPPHLFAVADTVYRALRTERRDQAVMISGESGAGKTEATKRLQFYAETCPAPERGGAVRDRLL  
 QSNPVLEAFNAKTLRNDNSSRFKYMVDFKQVGGHILSYLLEKSRVVHQNHGERNFHVYQLLE  
 GGEEETLRRLLGLERNPQSYLYLVKQCAKVVSSINDKSDWKVMRKALSVIDFTEDEVEDLLSIVASVHLG  
 NIHFADAEDSNAQVTTENQLKYLTRLLGVEGTTREALTHRKIIAKGEELLSPLNLEQAAYARDALAKAV  
 YSRFTFWLVRKINRSLASKDAESPSWRSTTVLGLLDIYGFVQFHNSFEQFCINYCNEKLQQLFIELTLK  
 SEQEEYEAEGLAWEPVQYFNKIIICDLVEEKFKGIIISILDEECLRPGEATDLTFLEKLEDVTKPHPHFLT  
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 RPETVATQFKMSLLQLVEILRSKEPAYIRCIKPNDAKQPGRFDEVLRHQVQYKGLMENLRVRRAGFAYR  
 RKYEAFLQRYKSLCPETWPMWAGRPQDGVAVLVRHLGYKPEEYKMGRTKIFIRFPKTLFATEDSLEVRQ  
 SLATKIQAARWGFHWRQKFLRVKRSIICISWWRGTLGRRKAARKWAAQTIRRLIRGFIILRHSRCPEN  
 AFFLDHVRASFLNLRRQLPRNLDTSWPTPPPALREASELLRELCMKNMVWYCRSISPEWKQLQKKA  
 VASEIFKGGKDNYPQSVPRFLISTRLGTEEISPRVLQSLGSEPIQYAVPVVYKDRKGYKPRPRQLLTPS  
 AVVIVEDAKVKQRIDYANLTGISVSSLSDSLFLVHVQREDNKQKGDVVLQSDHVIETLTKTALSADR  
 VNN ININQGSITFAGGPRDGIIDFTSGSELLITKAKNGHLAVVAPRLNSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9046\\_f04.zip](https://cdn.origene.com/chromatograms/mm9046_f04.zip)

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



ACCN: NM\_008659

ORF Size: 3084 bp

OTI Disclaimer: 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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_008659.3](#), [NP\\_032685.1](#)

RefSeq Size: 5281 bp

RefSeq ORF: 3087 bp

Locus ID: 17913

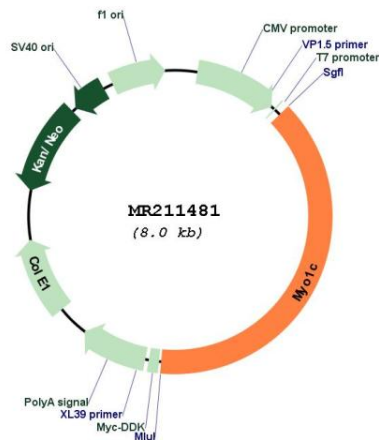
UniProt ID: [Q9WTI7](#)

**Cytogenetics:** 11 45.92 cM

**MW:** 118.6 kDa

**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 protein functions in intracellular vesicle transport to the plasma membrane. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for MR211481