

Product datasheet for **MC229286**

Myo1c (NM_001080774) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo1c (NM_001080774) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC229286 representing NM_001080774 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGCGCCTTGACTGCCCGAGACCGGGTAGGGGTGCAGGACTTTGTCTGCTGGAGAATTTACCA
GTGAGGCTGCCTTCATTGAGAACCTCCGGCGCGGTTCCGGGAGAACCTCATTTATACCTACATCGGTCC
TGTCTAGTCTCTGTCAATCCCTACCGAGACCTACAGTCTACAGCCGGCAGCATATGGAACGCTACCGT
GGTGTCAAGTTCTATGAAGTACCACCTCATTTGTTTGCAGTGGCTGACACTGTATACCGGCACTTCGTA
CTGAGCGTCGGGACCAGGCAGTGATGATTTCTGGAGAGAGTGGGGCAGGCAAGACAGAGGCCACCAAGAG
ACTGCTCCAGTTCTATGCAGAGACCTGCCAGCCCTGAACGGGGTGGCGCAGTGCAGAGCCGCTGTTG
CAGAGCAACCCCGTGTAGAGGCCCTTTGGGAATGCCAAGACTCTCCGCAACGATAACTCCAGCCGGTTTG
GAAAGTACATGGATGTGCAGTTTGACTTCAAGGGTGCCCCCGTGGGAGGCCACATTTCTCAGTTACCTCCT
GGAAAAGTCCCGGGTGGTGCACCAAAATCACGGAGAGCGGAATTCACGCTCTTTTACCAGCTACTGGAG
GGGGCGAGGAGGAGACTCTCCGTCGGCTGGGCTTGAACGGAACCCCAAGACTACTTGTACCTGGTGA
AGGGCCAGTGTGCAAGGTCTCCTCCATCAACGACAAGAGTACTGGAAGGTTATGAGGAAGGCGCTGTC
CGTCATTGACTTCACTGAGGATGAAGTGGAGGACTTGTCTCAGCATCGTGGCCAGCGTCTACATCTGGGC
AACATCCACTTTGCTGCTGACGAGGACAGCAATGCCAGGTTACTACTGAGAACCAGCTCAAATATCTGA
CCAGGCTCCTTGGTGTGGAAGGTACAACACTTAGGGAAGCCCTGACCCACAGGAAGATCATCGCCAAGGG
GGAAGAGCTCCTGAGCCCACTGAACCTTGAACAGCGGCATATGCAAGGGATGCGCTTGGCAAGGCTGTG
TACAGCCGGACATTCACCTGGCTGGTCAGAAAGATCAATAGGTCACTGGCCTCTAAGGACGCTGAGAGCC
CCAGCTGGCGAAGCACCACGGTTCTTGGGCTCCTGGACATTTACGGCTTTGAAGTGTTCAGCATAACAG
CTTCGAGCAGTTCTGCATCAACTACTGCAATGAGAAGCTGCAGCAGCTTTCATCGAGCTGACTCTCAAG
TCGGAGCAGGAGGAATACGAGGCTGAGGGCATCGCGTGGGAACCTGTCCAGTACTTCAACAACAAGATCA
TCTGTGACCTGGTAGAGGAGAAGTTCAAGGGCATCATCTCCATCTGGATGAAGAGTGCCTGCGTCTGG
GGAGGCCACGGACCTGACCTTTCTGGAGAAGTTGGAGGACTGTCAAGCCCCACCTCACTTCTGACG



CACAAGCTCGCTGACCAGAAGACCAGGAAATCTCTAGACCGAGGGGAGTCCGCCTTCTGCATTATGCTG
 GAGAGGTGACCTACAGTGTGACTGGGTTTCTGGATAAAAAACAATGACCTCCTCTCCGGAACCTGAAGGA
 GACCATGTGCAGCTCAATGAACCCATCATGGCCAGTGTCTTGACAAGAGTGAGCTCAGTGACAAGAAG
 CGGCCAGAGACGGTGGCCACCCAGTTCAAGATGAGCCTCTGCAGCTCGTGGAGATCCTGAGGTCTAAGG
 AGCCTGCCTATATCCGGTGCATCAAGCCAAACGACGCCAAGCAGCCGGTTCGCTTTGATGAGGTGCTCAT
 CCGACATCAGGTGAAGTACCTGGGACTGATGGAGAATCTGCGCGTGCCGAGAGCTGGCTTTGCCTATCGT
 CGCAAATATGAGGCTTTCCTGCAGAGTACAAGTCACTGTGCCAGAGACATGGCCCATGTGGCCAGGAC
 GGCCCCAGGATGGTGTGGCCGTGTTGGTCAGACACCTCGGCTACAAGCCAGAAGAGTACAAAATGGGCAG
 GACTAAGATCTTCATCCGATTTCCCAAGACCTGTTTGGCACAGAGGACTCCCTGGAAGTCCGGCCGACAG
 AGTCTAGCCACCAAGATCCAGGCGGCTGGAGGGCTTTCATTGGCGACAGAAATTTCTCCGGGTGAAGC
 GATCAGCCATCTGTATCCAGTATGGTGGCGTGGCACACTGGGCCGAGGAAGGCAGCCAAGAGGAAGTG
 GGCAGCCAGACCATCCGTGACTCATCCGTGGCTTCAATTTGCGCCATTCACCCCGGTGCCCTGAGAAT
 GCCTTCTTCTGGACCACGTGCGCGCTCATTTTTGCTTAACCTGAGGCGGCAACTGCCCGGAATGTTT
 TGGACACCTCCTGGCCACACCCACCTGCCCTGAGAGAGGCCCTCAGAAGTCTACGGGAAGTGTGCAT
 GAAGAACATGGTGTGAAGTACTGCCGGAGCATCAGCCCTGAGTGAAGCAGCAGCTGCAGCAAAGGGCG
 GTGGCTAGTGAATTTTCAAGGGCAAGAAGGACAACCTACCCAGAGTGTCCCAGACTTTCATTAGCA
 CACGGCTTGGCACAGAGGAGATCAGCCCCAGAGTCTTCAATCCTTGGGCTCTGAACCCATCCAGTATGC
 CGTGCCCGTGGTAAAATACGACCGTAAGGGTTACAAGCCTCGCCCCGGCAGCTGCTGCTCACGCCAGT
 GCTGTGGTCATTGTGGAGGATGCTAAAGTCAAGCAGAGAATTGATTATGCCAACCTAACCCGAATCTCTG
 TCAGTAGCCTGAGTGATAGCCTATTTGTGCTTACGTGCAGCGTGAAGACAACAAGCAGAAGGGAGATGT
 GGTGCTGCAGAGTATCATGTGATCGAGACACTAACCAAGACGGCCCTCAGTGTGACCCGCTGAACAAT
 ATCAACATCAACCAGGGCAGCATAACGTTTGCAGGGGGTCCAGGCAGGGACGGCATCATTGACTTCACAT
 CGGGCTCAGAGCTTCTCATCACCAGGCTAAGAATGGCCACCTGGCTGTGGTGGCCCCACGGCTGAATTC
 TCGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001080774
- Insert Size:** 3087 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_001080774.1](#), [NP_001074243.1](#)

RefSeq Size: 5318 bp

RefSeq ORF: 3087 bp

Locus ID: 17913

UniProt ID: [Q9WTI7](#)

Cytogenetics: 11 45.92 cM

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]
Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 4. The resulting isoform (b) has a shorter N terminus when compared to isoform c. Variants 2 and 3 encode the same isoform.