

Product datasheet for SC100515

Myosin 1C (MYO1C) (NM_033375) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin 1C (MYO1C) (NM_033375) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin 1C
Synonyms:	MMI-beta; MMIb; myr2; NMI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100515 sequence for NM_033375 edited (data generated by NextGen Sequencing)

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ATGGAGAGTGCGCTCACCGCCCGTGACCGGGTGGGGTGCAGGATTCGTGCTGCTGGAG
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TCTCTGGGCCGAGGGGAATTCGCCTTCTGCACTATGCGGGGGAGGTGACCTACAGCGTG
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 GACTTCACACCCGGCTCGGAGCTGCTCATACCAAGGCCAAGAACGGGCACCTGGCTGTG
 GTCGCCCCACGGCTGAATTCTCGGTGA

Clone variation with respect to NM_033375.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_033375 unedited
 AGGTTTACATTTGTATACGACTCCTATAGGGCGCCGCGAATTCGCACGAGGGCCGGCCG
 GGCAGAATGCGCTACCGGGCGTCCGCCCTGGGCAGTGACGGGGTTCGGGTGACCATGGAG
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 ACCAGCGAGGCCGCTTTCATCGAGAACCTGCGCGGGGATTTCCGGGAGAATCTCATCTAC
 ACCTACATTGGCCCCGCTCTGGTCTCTGTCAATCCCTACCGGGACCTGCAGATCTACAGC
 CGGCAGCATATGGAGCGTACCCTGGCGTCACTTCTATGAAGTGCCCCCTCACCTGTTT
 GCCGTGGCGGACACTGTGTACCGAGCACTGCGCACGGAGCGTCCGGACCAGGCTGTGATG
 ATCTCTGGGGAGAGCGGGGACAGGCAAGACCGAGGCCACCAAGAGGCTGCTGCAGTTCTAT
 GCAGAGACCTGCCAGCCCCGAGCGCGGAGGTGCCGTGCGGGACCGGCTGCTACAGAGC
 AACCCGGTGTGGAGGCCTTTGGAAATGCCAAGACCCTCCGGAACGATAACTCCAGCANG
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 CTCAGTTACCTCCTGGNAAAGTACAGAGTGGTGCACCAGAATCATGGGGAGCGGAACTTN
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 GAACGAACCCCCAGAGCTACCTGTACCTGGTGAAGGGCCAGTGTGCCAAGTCTNCTNCAT
 CAACGACCAGAGTGACTGGNAAGTGTGAGGAAGGCTCTGACAGTCATTGATTTACCCGA
 GA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_033375 unedited GCTCAACTTTGGTACGCTATACGNNGCTTAGGGTCGAGTTTTTTTTTTTTTTTTTTAGTA ACGGAGTCTCGCTCTGTTGCCAGGCTGAAGTGCAGTGGTGTACTCTTGGCTCACTGCAAC CTCCACTTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCTCCCGAGTAGCTGGGATTAGA GGCGTGCACCACCATGCCCGCTAATTTGTATTTTATTTTTTTCGGAGTTTCTCCATG TAGGTACAGGGGGGCTCGAAATCCTGACCTCAGGTTATATGCCCGTCTCCATCTCCAAA GTGCTGGGGTTACAGGCGTGAGCCACCATGCCAGCCTAAAAGGACATTCTTAAGGCAGA AAGAAGGGGGCAGGCAAGGGTGGTCTCAGCCCCAGATGGAAGTCAGAGTGGGCTGCAAA AGATGCAGATGGGCAGGCAGGGAGACAGGTAAACAGACAGAAAGACAAGGTGCCAAGGGA ATCAGGAGGAGAGGTGTCTGGCCAGGGAAGAGGGCACCAGAGCCAGCCACACAACT CTCGGCTACATTCCTTGGCCTGTGGAGTCAGGGAAAACACATCCACTGTGCTCTGGGT GGGAAATGGCTTTTTAAAAATAGTTTCTATAAAGCATCAAAAAACCTCAGAGAAAA CCTCAGCAAAAGTTCCCTTCTCTCAAATATTTGGCATCGGCAGTAGGGCTGGCATGGCTC GCTCTGGCCCTGGCTTCTCTATTGCTGTGGCCCGCCTGGCCCAATCCGGGGTAGCTCC TGGCCCTGCTGCTCCCCTCAAAANAGGGATGGGCAAGGAGGTGGGAGATTGCAGGTGGG GCTTCGGGGTGTCCCTGGGTCCCCTGTCTGGGAATTTCAATCTTTGGTAACAGGA
Restriction Sites:	NotI-NotI
ACCN:	NM_033375
Insert Size:	4400 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).
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:	<ol style="list-style-type: none"> 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_033375.3 , NP_203693.2
RefSeq Size:	4318 bp
RefSeq ORF:	3087 bp
Locus ID:	4641
UniProt ID:	O00159
Cytogenetics:	17p13.3
Domains:	IQ, myosin_head

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 1E has been referred to as myosin 1C in the literature, but it is a distinct locus on chromosome 19. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (c) has a shorter N terminus when compared to isoform a.