

## Product datasheet for **SC120266**

### Myosin (MYL6) (NM\_079423) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin (MYL6) (NM_079423) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin
Synonyms:	ESMLC; LC17; LC17-GI; LC17-NM; LC17A; LC17B; MLC-3; MLC1SM; MLC3NM; MLC3SM
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120266 sequence for NM_079423 edited (data generated by NextGen Sequencing)

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ATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGCCTCCAGCTGTTTGAC
CGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAGGGCCCTGGGC
CAGAACCCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATG
AATGTGAAGGTGCTGGACTTTGAGCACTTTCTGCCATGCTGCAGACAGTGGCCAAGAAC
AAGGACCAGGGCACCTATGAGGATTATGTGCAAGGACTTCGGGTGTTTGACAAGGAAGGA
AATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTCACTGGGTGAGAAGATG
ACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGGTTGTATCAAC
TATGAAGAGCTCGTCCGCATGGTCTGAATGGCTGA

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Clone variation with respect to NM\_079423.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_079423 unedited</p> <pre> ACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTGCAGGAAAGGTCCCGGAGAGCTG AGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCCGACAGTTC AAGGAGGCCCTTCCA GCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAG GGCCCTGGGCCAGAACCCTACCAACGCCGAGGTGCTCAAGGTCTGGGGAACCCCAAGAG TGATGAGATGAATGTGAAGGTGCTGGACTTTGAGCACTTCTGCCATGCTGCAGACAGT GGCCAAGAACAAGACCAGGGCACCTATGAGGATTATGTGCAAGGACTTCGGGTGTTTGA CAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTACACTGGG TGAGAAGATGACAGAGGAAAGAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGG TTGTATCAACTATGAAGAGCTCGTCCGCATGGTGTGAATGGCTGANGACCTTCCAGTC TCCAGAGTCCGTGCCTTCCCTGTGTGAATTTGTATCTAGCCTAAATTTTCTTAGCC TTCTTGTCTCAGAACTTCCATCTTGCTTTCTTGGATGATGTTGCGGCAGCATTACCAA TAAACTGTTTCTGGGAAAAAAAAANANAAANNAAAAAAAAANANAANAAAAANAAAAAAA AANANAAAAACAAAAANNANANANAAAAANACAAAAANAAAAANAAAAANAAAAAAC TCCTTCTTTTGGGGCGGTATATTTTCTAAAAACCGGGTGATTTTGGCCCCCAGT GTTCTCGGCTGGAGGCCCTCCGGCCCCCTTGATAAAAAAAGGATATTTTGAAGGCG CTATGANGGGGGNGGGGGGGGNNNNNNNNNNCNCNNCNCNNNNACNCNCCACCACCGC CCCN </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_079423 unedited</p> <pre> CCTGGGCAGTTTTTTGGTGAAGCTGACGGCAACTCATCCAANANAGACAAGATGGGAAAG TTGCTGAGACAAGAAAGCCTAGGGAAACTTTAGGCTAGATACAAAATTCACACAGGGAAA GGCACGGACTCTGGGGAGACTGGGAAGTCTCAGCCATTCAGCACCATGCGGACGAGCT CTTCATAGTTGATACAACCATGCTGTCCCTCATGCCCTGCCACCAGCATCTACTTCTT CCTCTGTCACTTCTCACCCAGTGTGACAAGAATGCCGGATTTTCAGCACCATGACGG TGCCATTTCTTCTTGTCAAACACCCGAAGTCCTTCGACATAATCCTCATAGGTGCCCT GGTCTTGTCTTGGCCACTGTCTGCAGCATGGGCAGAAAGTGCTCAAAGTCCAGCACCT TCACATTCATCTCATCACTCTTGGGGTTCCCCAGGACCTTGAGCACCTCGGCGTTGGTAG GGTTCTGGCCCAGGGCCCTCATCACATCCCCACACTGGCTGTACAGGATCTTGCCATCAC CTGTTCCGTCAAACAGCTGGAAGGCCTCCTTGAAGTCTGCGGTCGTGCTTCCGGTGAAGT CACACATCTTACTGCTCAGCTCTCCGGACCTTTTCTGCAGCCTCGTGCCGAATTCGC GGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGCTT ATATAGACCTNCCACCGTACACGCCTACCGGCCATTTGCGTCAACGGGGCCGGTTATTA CGACATTTTGGGAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATG GGGTGGGAGACCTGGGAATCCCGTGAGTCAAACCGCTTCCACGCCCATTTGGTGTACTGC CAAACCCATTACCATGGTATAACGATGACT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_079423
<b>Insert Size:</b>	4880 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_079423.1](#), [NP\\_524147.1](#)

**RefSeq Size:** 651 bp

**RefSeq ORF:** 351 bp

**Locus ID:** 4637

**UniProt ID:** [P60660](#)

**Cytogenetics:** 12q13.2

**Domains:** EFh

**Protein Families:** Druggable Genome

**Protein Pathways:** Vascular smooth muscle contraction

**Gene Summary:** Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain that is expressed in smooth muscle and non-muscle tissues. Genomic sequences representing several pseudogenes have been described and two transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (2) is the same length as isoform 1, but the proteins differ in their C-terminal sequences.