

Product datasheet for **SC120265**

myosin light chain 1 (MYL1) (NM_079422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	myosin light chain 1 (MYL1) (NM_079422) Human Untagged Clone
Tag:	Tag Free
Symbol:	myosin light chain 1
Synonyms:	MLC1F; MLC3F; MYOFTA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_079422, the custom clone sequence may differ by one or more nucleotides

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ATGTCCTTCAGTGCTGACCAGATTGCTGAATTC AAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGATT  
CCAAGATCACCTTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACAAATCCCACCAATGCAGAGGT  
CAGGAAAGTTCTGGGAAACCCAGCAATGAAGAGCTGAATGCCAAGAAAATTGAGTTTGAACAATTTCTG  
CCTATGATGCAAGCCATTTCCAACAACAAGGACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTG  
TCTTTGACAAGGAAGGCAATGGCACAGTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCTGGGTGA  
AAAGATGAAAGAGGAAGAAGTGAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTAC  
GAAGCTTTTGTCAAGCACATCATGTCTATCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_079422 unedited</p> <pre> NGGGGAGTCGACTTTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGAGCA GCCCTCAACTCACTCTTCAGCTTCCCTGCTGTGTTGCAGCCCAGCCGCTCCATCATGTCC TTCAGTGTGACCAGATTGCTGAATTCAGGAGGCATTTCTCCTGTTTGACAGAACAGGT GATTCCAAGATCACCTTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACAAATCCC ACCAATGCAGAGGTCAGGAAAGTTCTGGGAAACCCAGCAATGAAGAGCTGAATGCCAAG AAAATTGAGTTTGAACAATTTCTGCCTATGATGCAAGCCATTTCCAACAACAAGGACCAG GCCACCTATGAAGACTTTGTTGAGGGTCTGCGTGTCTTTGACAAGGAAGCAATGGCACA GTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCCTGGGTGAAAAGATGAAAGAGGAA GAAGTGGAAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTACGAAGCT TTTGTCAAGCACATCATGTCTATCTGAATGGAGCTCTCAAGAACAAGCATTGTTTAGGAA GACTGGCTGAAAACCTATTTTAATCACACCCATGACAACTCTCCAGATCTGTTTACCAT CATTCAAGAAAACAAGCAATCTGGACGGTTCAAGACTGAGCAACTCCCTGAATTTTTAT ACATCTTCAGTTTTTCTCTGAATTGAATTCATACCACACAAAACAAGTGTCTGCTGCTCT AGATGAGAAAAGATAAAATATTGACAATCTCAAATCCAGCACCATTCTTTATTATCTACCA TGATCAACAAACATTCTTAAAACAAATAATCAATAAACAAATTNTC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_079422 unedited</p> <pre> ACTATGNACCCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTCCCAGACTGACCAAAATTGTTTATTGATTTATTGTTTTAAAA ATGTTTGTGATTCATGGTAAATAATAAAAAATGGGGCTTGGATTTGAAATTGCCAATAT TTTATTCTCTCATCTAGAGCAGCAAACACTTTGTTTGGGGGTATGAATTCATTCAGA GAAAAACTGAAGATGTTTAAAAATTCAGGGAGTTGCTCAGTCTTGAACCGTCCAAATTGC TTTGTTTTCTGAATGATGGGAAACAAATCTGGAGAGTTTGTGATGGGTGTGATTTAAAT AAGTTTCCAGCCGCTCTTCTAAACAATGCTTGTCTTGAGAGCTCCATTCAAATAGACA TGATGTGCTTGACAAAAGCTTCGTAGTTGATGCCCCCTTGGAGTCTTCTTGACCTGCCA TCAGGGCTTCCACTTCTTCTCTTTTCACTTTTCAACCCGGGGGGCTAGAACATGGCGGA GTTCAAGCACCCATGACTGTGCCATTGCCTTCTTGGCAAAAACACGCAGACCCCTCAACAA AGTCTTCATAGGTGGCCTGGTCTTGTGTTGGAATGGCTTGCATAGGCCGAAATTTG TTCAAACCTCAATTTTCTGGCATTCACTCTTCTTCTGTTGGGGTTCCAGAACTTTCTC GACCTCTGCATTGGTGGATTTGTGCCCCAGCTCGAAGGACATCCCCACCTGGCTTAAG GGATCTTGAATCACCTGTTCTGTTCAACAGAAGAATGCCTCTTGAATTTCCCAATCTG GTCCCCCTTAAGACATGAATGGAGCGCTGGGCTGCACACCCCGGAAACTCANAAAG GAGTTGAAGCTGCTCTCTGCCATATCCGGCCGCCCTTGTGGGGCTATACAAAATTGCC GGTCCCTAAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_079422
Insert Size:	900 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:

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_079422.1](#), [NP_524146.1](#)

RefSeq Size: 853 bp

RefSeq ORF: 453 bp

Locus ID: 4632

UniProt ID: [P05976](#)

Cytogenetics: 2q34

Domains: EFh

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 expressed in fast skeletal muscle. Two transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (3f) encodes a protein that is 44 aa shorter than isoform 1f. Transcript variants 3f and 1f differ in their first two exons.