

Product datasheet for **SC109466**

myosin light chain 1 (MYL1) (NM_079420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	myosin light chain 1 (MYL1) (NM_079420) 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_079420, the custom clone sequence may differ by one or more nucleotides

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ATGGCACAAAGAAGACGTGAAGAAACCTGTGGCTGCGGCTGCGGCTGCCCCAGCCCCGGCACCCGGCAC
CTGCACCTGCCCTGCCCCAGCCAAACCCAAAGAAGAAAAATTGACCTCTTGCCATTAAGATCGAGTT
CTCTAAGGAACAGCAGGATGAATCAAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGATTCCAAGATC
ACCTTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACAAATCCCACCAATGCAGAGGTCAGGAAAG
TTCTGGGAAACCCAGCAATGAAGAGCTGAATGCCAAGAAAATTGAGTTGAACAATTTCTGCCTATGAT
GCAAGCCATTTCCAACAACAAGGACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTGTCTTTGAC
AAGGAAGCAATGGCACAGTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCCTGGGTGAAAAGATGA
AAGAGGAAGAAGTGAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTACGAAGCTTT
TGCAAGCACATCATGTCTATCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_079420 unedited NTTCTTTTCCCGCCCGTTGCCGATTGGGCGGTAGGCGGTACGGTGGGAGGTCTATAT AAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCC GCGAATTCGGCACGAGGGAGCAGCCCTCAACTCACTCTTCAGCTTCCCTGCTGTGTTGCA GCCCAGCCGCTCCATCATGCTTTTTATGTTCTAGATTCAAAGTATCCTAAGGCAACCT TCTAATGCCAAGACACCTACATAGCTTCTAAAAATCTCAGAGCAACCAGCACTCATTCT TCTGTCAATGCATTTGAAAGAGTACTAGTTTTTTTTCTTTCTTTCTTTCTTTCGCCACTG CAGTCTTCAGTCTGACCAGATTGCTGAATTC AAGGAGCATTCTCCTGTTTGACAGA ACAGGTGATTCCAAGATCACCTTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACA AATCCCACCAATGCAGAGGTCAGGAAAGTTCTGGGAAACCCAGCAATGAAGAGCTGAAT GCCAAGAAAATTGAGTTTGAACAATTTCTGCCTATGATGCAAGCCATTTCCAANCACAGG NACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTGTCTTTGACAGGAANGGCATG GCACAGTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCCTGGGTGAAAAAGATGAAA GAGAAGAAGTGAAGCCCTGATGGCAGGTCAGAAGACTCAATGGCTGCATAACTACGAAG CTTTGTCAAGCCATCATGTCTATCTGAATGGAGCTCCAAGAACCAGCATTGTTTAGGAGA CTGGCTGAAAACCTATTTAATCACACCATGAAAACCTCTCCGATCTGTTACCATCATTC GGAC
Restriction Sites:	NotI-NotI
ACCN:	NM_079420
Insert Size:	1100 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:	<u>NM_079420.1</u> , <u>NP_524144.1</u>
RefSeq Size:	1052 bp
RefSeq ORF:	585 bp
Locus ID:	4632
UniProt ID:	<u>P05976</u>
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 (1f) encodes a protein that is 44 aa longer than isoform 3f. Transcript variants 1f and 3f differ in their first two exons.