

Product datasheet for **SC116321**

MYL9 (NM_006097) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYL9 (NM_006097) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL9
Synonyms:	LC20; MLC-2C; MLC2; MMIHS4; MRLC1; MYRL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116321 sequence for NM_006097 edited (data generated by NextGen Sequencing)

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ATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGCGGGCCACATCC
AATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATG
ATTGACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCG
CTGGGGAAGAACCCACAGACGAATACCTGGAGGGCATGATGAGCGAGGCCCGGGGCC
ATCAACTTCACCATGTTCTCACCATGTTTGGGGAAGCTGAACGGCACGGACCCCGAG
GATGTGATTCGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTTTCATCCATGAG
GACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGAC
GAGATGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACC
CGCATCTCAAACATGGCGCCAAGGATAAAGACGACTAG
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Clone variation with respect to NM_006097.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006097 unedited</p> <pre>CGAATTCGGCACCAGGCGAGCCCAAGCGCCTTCTCCGCACCAGGGAAGCCCCACCCACCA GAAGCCAAGATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGCGG GCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCT TTCAACATGATTGACCAGAACCCTGAGGGCTTCATTGACAAGGAGGACCTGCACGACATG CTGGCCTCGCTGGGGAAGAACCCACAGACGAATACCTGGAGGGCATGATGAGCGAGGCC CCGGGGCCCATCAACTTCACCATGTTCTCACCATGTTTGGGGAGAAGCTGAACGGCAGC GACCCCGAGGATGTGATTCGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTTTC ATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAG GAAGTGGACGAGATGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTG GAGTTCACCCGCATCCTCAAACATGGCGCAAGGATAAACACTTNNAGCCCCCCCCCAG CCCCCTGACCCCAANCCCCGGCAATCACCCCTTCCCGGACCACCCCGTNCATACCAA CTCCTTGCCCATGAACCTGGCTTAGGGATCCCCCTTTGAGGGGTAGGGTCCCATNTCCC AGTGGGAGAAACAGCCAGAAAAATGCCCTGCCGACCTGGGGCATATGT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006097 unedited</p> <pre>GCCGCAATCTANAGTCGAGTTTTTTNNNTTTTNNTCAGTGCTCATCCTCTTTGGAGATTC TGCCCCCTCTGGGACAGATGTCCACGCTGCCCGCATCCTGAGCACACTCCCATGGCGGG TGGCGTGTCTGGGTGGGTGTGCGGCAGTGGCCGGTCAGGGTGTAGGGAAGGGGACTGAG AGGGGACCTTGGTGAAGCTTGCATTTGTGTATGGATACACGTGAAGGGTGTCTGATCCCA GGACTCAGGGCCTTCTCCTCCTGGGGGACACAGAGCCTTTCCTTCTCCTCGGGGA ACAGCCCCGGAATGGGCCCTTCCCTTGTGCTTCTATGTTCTGTCTCCCCCATGTTA CCCAAAACGCGGCCTTCTCTTTCAGCGCTAAACACTATTTTCATGTGCCCGGGCTTA CTTNNCCATAACTCCTGGCCTTTCGTAATTCCTCCCTACTTCCCGTTTTTCATTCCATTCA ACGTTCACTACTACCCTCCCCCGCCACTTTCAGTTTCCCTCAATTCTCACTTTTTT CCTGAACCCTTCCCTCCCTCTTACCTATTCGCCCATATTCCTTTCCTTTCTCCCCCT CTCTCCCTCCCTTCTCTTCAATTTATACCCAGACTTCCATCTCNTACCCTTCTCCCGCAT CATTCCCCATTTTTATTTCTCATCTTCCATTTCTGCCCATCTTTTCTTCTCTTCTTCCC TCCCCCGTTCTCCCTCCCCCGTTCTATTTCTATTGCGCCGCTCTCTCCTTCCAGT TACCGTTTTTTTACCTCCCCCGTTTCCCTCATCTCTCCCCCTTCATTTCCCTATCTTGCC CTATCCTTATCTCCCCACCCCTCTCTCTTTCTCCCGCCACCCTCCGCTTCTCCTTTTT CCTCGTATCCCCTTTTTCTGTTACATTTTCCCTCGCCCCCCTCATCACCGTGCCTCA TCTCTTACCCACTTCTCCTTTTATATATCTTTCCCTTCCCTTTCTCCCCCCT TATTCTCCCCATTTTTCTTTCTTTTTCTCGCCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006097
Insert Size:	1140 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_006097.3 , NP_006088.2
RefSeq Size:	1212 bp
RefSeq ORF:	519 bp
Locus ID:	10398
UniProt ID:	P24844
Cytogenetics:	20q11.23
Domains:	EFh
Protein Pathways:	Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction, Vascular smooth muscle contraction
Gene Summary:	<p>Myosin, a structural component of muscle, consists of two heavy chains and four light chains. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>