

Product datasheet for SC319114

MYL9 (NM_181526) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYL9 (NM_181526) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL9
Synonyms:	LC20; MLC-2C; MLC2; MMIHS4; MRLC1; MYRL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_181526.1
CGCCTTCTCCGCACCAGGAAGCCCCACCACAGCAAGCCAAGATGTCCAGCAAGCGGGC
CAAAGCCAAGACCACCAAGAAGCGGCCACAGCGGGCCACATCCAATGTCTTCGCAATGTT
TGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTGACCAGAACCGTGA
TGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGTTTCATCCATGA
GGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGTTCACAGATGAGGAAGTGA
CGAGATGTACCGGAGGCCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCAC
CCGCATCCTCAAACATGGCGCCAAGGATAAAGACGACTAGGCCACCCAGCCCCGACA
CCCCAGCCCCCGCAGTACCCCTCCCCGCACACCCCGTCCATACCAGTCCCTGCCCA
TGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTCCCAGTGAAGAAA
CAGGCCAGGAGAAGTGCCTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCC
TGGGCTATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGG
GCAGGACCTAGAGGCACCAAGGGAAGGCCCATTCGGGGCTGTTCCCGAGGAGGAAGG
GAAGGGGCTCTGTGTGCCCCCCAGGAGGAAGAGGCCCTGAGTCCCTGGGATCAGACACCCC
TTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCTCTCAGTCCCCTTCCCT
ACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGT
GCTCAGGAGTCGCGGGCAGCGTGGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAG
GACTGAGCACTGCTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_181526
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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_181526.1</u> , <u>NP_852667.1</u>
RefSeq Size:	1044 bp
RefSeq ORF:	357 bp
Locus ID:	10398
UniProt ID:	<u>P24844</u>
Cytogenetics:	20q11.23
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 (2) lacks an alternate in-frame exon compared to variant 1, resulting in a shorter isoform (b) compared to isoform a.</p>