

## Product datasheet for **SC118607**

### MLC1SA (MYL6B) (NM\_002475) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MLC1SA (MYL6B) (NM_002475) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLC1SA
Synonyms:	MLC1SA
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 SC118607 sequence for NM_002475 edited (data generated by NextGen Sequencing)

```
ATGCCTCCCAAGAAGGATGTTCCCGTGAAGAAACCAGCAGGGCCCTCCATCTCCAAACCT
GCTGCTAAGCCAGCAGCAGCAGGGGCTCCTCCAGCCAAGACCAAAGCTGAGCCAGCTGTC
CCCCAGGCCCTCAGAAAACCCAGGAGCCTCCAGTCGATCTCTCCAAAGTGGTGATCGAG
TTTAAACAAGGACCAGCTGGAGGAGTTCAAGGAGGCCTTCGAGCTGTTTGACCGAGTGGGG
GATGGCAAGATCCTGTACAGCCAGTGTGGGGACGTGATGAGGGCCCTGGGCCAGAACCCC
ACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGCTGAAGTCGCGG
CGTGTGGACTTTGAGACTTTCTGCCATGCTCCAGGCAGTGGCCAAGAACCGAGGCCAA
GGCACATATGAGGACTACTTGGAGGGTTTCGTGTGTTTGACAAGGAGGGGAACGGCAAA
GTCATGGGAGCAGAGCTCAGACATGTTCTCACCACCTTGGAGAGAAGATGACTGAGGAG
GAGGTGGAGACCGTTCTGGCAGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCC
TTCTTGAAACACATCCTAAGCGTCTGA
```

Clone variation with respect to NM\_002475.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002475 unedited  
 GAACGTCAAATTTGTATACCATCATATAGGGCGGCCGGAATTCGCACGAGGGAGATGG  
 GTGCCCCATCCGCACACTGTCTTTGGCCACCGGACATCATGCCTCCCAAGAAGGATGT  
 TCCCGTGAAGAAACCAGCAGGGCCCTCCATCTCCAACCTGTGTGTAAGCCAGCAGCAGC  
 AGGGGCTCCTCCAGCCAAGACCAAGCTGAGCCAGCTGTCCCCAGGCCCTCAGAAAAC  
 CCAGGAGCCTCCAGTCGATCTCTCCAAAGTGGTGTGAGTTTAAACAAGGACCAGCTGGA  
 GGAGTTCAAGGAGGCCTTCGAGCTGTTTGACCGAGTGGGGGATGGCAAGATCCTGTACAG  
 CCAGTGTGGGGACGTGATGAGGGCCCTGGGCCAGAACCCACCAACGCCGAGGTGCTCAA  
 GGTCTGGGGAACCCCAAGAGTGATGAGCTGAAGTCGCGCGTGTGGACTTTGAGACTTT  
 CCTGCCCATGCTCCAGGCAGTGGCCAAGAACCAGGCCAAGGCACATATGAGGACTACTT  
 GGAGGGGTTTCGTGTGTTTGACAAGGAGGGGAACGGCAAAGTCATGGGAGCAGAGCTCAG  
 ACATGTTCTCACCACCCTTGAGAGAAGATGACTGAGGAGGAGGTGGAGACCGTTCTGGC  
 AGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCCTTCTTGAAACACATCCTAAG  
 CGTCTGAGTGCTGCAGATCCAGTGGGGTCCGGACACTGGGCCCCCGCAGCGAAAGCACGT  
 TCCAGCCACCAGNAGGCCACCTATTGTTTCAAAATAAAGACTGGGTTCTCTCTTTGGAA  
 AAAANNNNNNGNAGGNAANNAAGAAAAAANAAGAGAGANNGAAAAAGAGAGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002475 unedited  
 GGTGGAGCCCATCTTCTTTTAAACATGGTGGCCTCCTGGTGGCTGGAACGTGCTTTTCG  
 CTGCGGGGCCAGTGTCCGGACCCCACTGGATCTGCAGCACTCAGACGCTTAGGATGTGT  
 TTCAAGAAGGCCTCGTAGTTGATGCAGCCGTTGCTGTCTCGTGTCTGCCAGAACGGTC  
 TCCACCTCCTCCTCAGTCATCTTCTCTCAAGGGTGGTGAACATGTCTGAGCTCTGCT  
 CCCATGACTTTGCCGTTCCCTCCTTGTCAAACACACGAAACCCCTCCAAGTAGTCTCA  
 TATGTGCCTTGGCCTCGGTTCTTGGCCACTGCCTGGAGCATGGGCAGGAAAGTCTCAAAG  
 TCCACACGCCCGACTTCAGCTCATCACTCTTGGGGTTCCCCAGGACCTTGAGCCTCG  
 GCGTTGGTGGGGTCTGGCCAGGGCCCTCATCACGTCCCACACTGGCTGTACAGGATC  
 TTGCCATCCCCACTCGGTCAAACAGCTCGAAGGCCTCCTTGAATCCTCCAGCTGGTCC  
 TTGTTAAACTCGATCACCCTTTGGAGAGATCGACTGGAGGCTCCTGGGCTTTCTGAGGG  
 GCCTGGGGGACAGCTGGCTCCACCTTGGTCTTGCCTGGAGGACCCCTGCTGTGCTGGC  
 TTCACCCCGGTTCCGGCAGTGGCGGGCCCTGCTGGTTTCTTCCCGTACCATCCCTCTC  
 TGGGTGGCCTGCTGTTCCCGGGCCCCCCCCGACACGTCGCCGGCTGGGGGTCCCTCTTCT  
 CCTTTGTGTTCAAATTCGCCCCCCTTCTCTGTTTCTGTCTCCATATTTCTCGCGGC  
 CCCCTTAATCTTCTCTGCTTTTTTCGACCTTCCCGTTCCTCCCTATCGCCCTTTTTTC  
 CGTTCCTGGCCCGGGCTTCTCCCTTTCCGAACAACCCAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002475

**Insert Size:**

850 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\\_002475.2](#), [NP\\_002466.1](#)

**RefSeq Size:** 778 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 140465

**UniProt ID:** [P14649](#)

**Cytogenetics:** 12q13.2

**Domains:** EFh

**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 expressed in both slow-twitch skeletal muscle and in nonmuscle tissue. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.