

#### OriGene Technologies, Inc.

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# Product datasheet for RC202076

### MLC1SA (MYL6B) (NM\_002475) Human Tagged ORF Clone

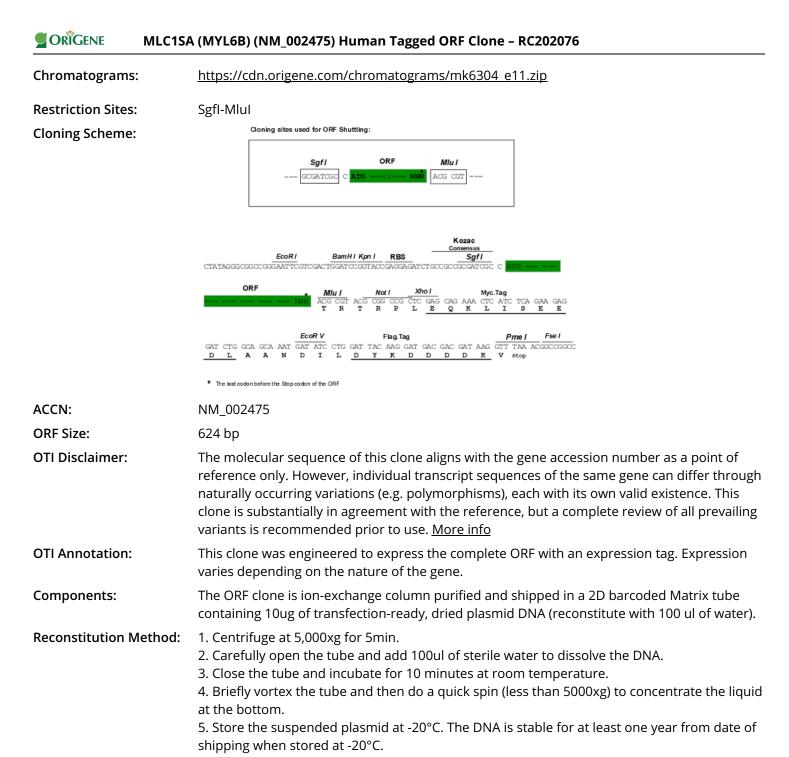
### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MLC1SA (MYL6B) (NM_002475) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MLC1SA
Synonyms:	MLC1SA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC202076 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCTCCCAAGAAGGATGTTCCCGTGAAGAAACCAGCAGGGCCCTCCATCTCCAAACCTGCTGCTAAGC CAGCAGCAGCAGGGGGCTCCTCCAGCCAAGACCAAAGCTGAGCCAGCTGTCCCCCAGGCCCCTCAGAAAAC CCAGGAGCCTCCAGTCGATCTCTCCAAAGTGGTGATCGAGTTTAACAAGGACCAGCTGGAGGAGTTCAAG GAGGCCTTCGAGCTGTTTGACCGAGTGGGGGGATGGCAAGATCCTGTACAGCCAGTGTGGGGAACGTGATGA GGGCCCTGGGCCAGAACCCCACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGCT GAAGTCGCGGCGTGTGGACTTTGAGACTTTCCTGCCCATGCTCCAGGCAGTGGCCAAGAACCGAGGGCCAA GGCACATATGAGGACTACTTGGAGGGGTTTCGTGTGTTTGACAAGGAGGGGGAACCGCAAAGTCATGGGAG CAGAGCTCAGACATGTTCTCACCACCCTTGGAGAGAAGATGACTGAGGAGGGGGAACGGCAAAGTCATGGGAG CAGAGCTCAGACATGTTCTCACCACCCTTGGAGAGAAGATGACTGAGGAGGAGGGGGAGCCGTTCTGGC AGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCCTTCTTGAAACACATCCTAAGCGTT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC202076 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTKAEPAVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFK EAFELFDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGQ GTYEDYLEGFRVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYEAFLKHILSV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Note:Plasmids are not sterile. For experiments where strict sterility is required, filtration with<br/>0.22um filter is required.

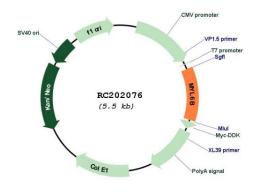
 RefSeq:
 NM 002475.5

 RefSeq Size:
 1008 bp

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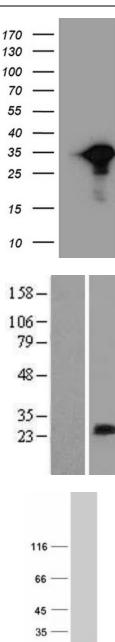
	SA (MYL6B) (NM_002475) Human Tagged ORF Clone – RC202076
RefSeq ORF:	627 bp
Locus ID:	140465
UniProt ID:	<u>P14649</u>
Cytogenetics:	12q13.2
Domains:	EFh
Protein Pathways:	Vascular smooth muscle contraction
MW:	22.8 kDa
Gene Summary:	Myosin is a hexameric ATPase cellular motor protein. It is composed 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]

## Product images:



Circular map for RC202076

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25 18 14 HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYL6B (Cat# RC202076, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYL6B (Cat# [TA811146])(1:2000). Positive lysates [LY419310] (100ug) and [LC419310] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY419310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202076 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MYL6B protein (Cat# [TP302076]). The protein was produced from HEK293T cells transfected with MYL6B cDNA clone (Cat# RC202076) using MegaTran 2.0 (Cat# [TT210002]).

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