

Product datasheet for RG202076

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OriGene Technologies, Inc.

MLC1SA (MYL6B) (NM 002475) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: MLC1SA (MYL6B) (NM_002475) Human Tagged ORF Clone

TurboGFP Tag: MLC1SA Symbol: Synonyms: MLC1SA

Selection:

Mammalian Cell

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG202076 representing NM_002475

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCTCCCAAGAAGGATGTTCCCGTGAAGAACCAGCAGGGCCCTCCATCTCCAAACCTGCTGCTAAGC CAGCAGCAGGGGGCTCCTCCAGCCAAGACCAAGCTGAGCCAGCTGTCCCCCAGGCCCCTCAGAAAAC CCAGGAGCCTCCAGTCGATCTCCCAAAGTGGTGATCGAGTTTAACAAGGACCAGCTGGAGGAGTTCAAG GAGGCCTTCGAGCTGTTTGACCGAGTGGGGGATGGCAAGATCCTGTACAGCCAGTGTGGGGACGTGATGA GGGCCCTGGGCCAGAACCCCACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGCT GAAGTCGCGGCGTGTGGACTTTGAGACTTTCCTGCCCATGCTCCAGGCAGTGGCCAAGAACCGAGGCCAA GGCACATATGAGGACTACTTGGAGGGGTTTCGTGTGTTTGACAAGGAGGGGAACGGCAAAGTCATGGGAG CAGAGCTCAGACATGTTCTCACCACCCTTGGAGAGAAGATGACTGAGGAGGAGGTGGAGACCGTTCTGGC

AGGACACGAGGACAGCAACGGCTGCATCAACTACGAGGCCTTCTTGAAACACATCCTAAGCGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

>RG202076 representing NM_002475 **Protein Sequence:**

Red=Cloning site Green=Tags(s)

MPPKKDVPVKKPAGPSISKPAAKPAAAGAPPAKTKAEPAVPQAPQKTQEPPVDLSKVVIEFNKDQLEEFK EAFELFDRVGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDELKSRRVDFETFLPMLQAVAKNRGQ GTYEDYLEGFRVFDKEGNGKVMGAELRHVLTTLGEKMTEEEVETVLAGHEDSNGCINYEAFLKHILSV

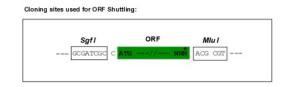
TRTRPLE - GFP Tag - V

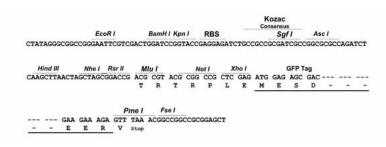
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_002475

ORF Size: 624 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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

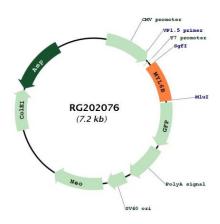
Protein Pathways: Vascular smooth muscle contraction

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]

Product images:



Circular map for RG202076