

## Product datasheet for **SC127713**

### MRCL3 (MYL12A) (NM\_006471) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRCL3 (MYL12A) (NM_006471) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL12A
Synonyms:	HEL-S-24; MLC-2B; MLCB; MRCL3; MRLC3; MYL2B
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006471, the custom clone sequence may differ by one or more nucleotides

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ATGTCGAGCAAAGAACAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTTTGCTA
TGTTTGACCAGTCGAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGTTT
CATCGACAAGGAAGATTTGCATGATATGCTTGCTTCATTGGGGAAGAATCCAACATGATGAGTATCTAGAT
GCCATGATGAATGAGGCTCCAGGCCCATCAATTTACCATGTTCTCACCATGTTTGGTGAGAAGTTAA
ATGGCACAGATCCTGAAGATGTCATCAGAAATGCCTTTGCTTGCTTTGATGAAGAAGCAACTGGCACCAT
ACAGGAAGATTACTTGAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGATGAG
CTGTACAGAGAAGCACCTATTGATAAAAAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAAC
ATGGAGCCAAAGACAAAGATGACTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006471 unedited GTCAGATTTGTATACGACTCATATAGGCCGGCCGCGNAATTCGCACGAGGGTGCTCGGATT CTCGTAGCTGTGCCGGGACTTAACCACCACCATGTGCGAGCAAAGAACAAGACCAAGAC CAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTTTGTATGTTTGACCAGTCACAGAT TCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGTTTCATCGACAA GGAAGATTTGCATGATATGCTTGCTTCATTGGGGAAGAATCCAAGTATGAGTATCTAGA TGCCATGATGAATGAGGCTCCAGGCCCATCAATTTACCATGTTCTCACCATGTTTGG TGAGAAGTTAAATGGCACAGATCCTGAAGATGTCATCAGAAATGCCTTTGCTTGTGA TGAGAAGCAACTGGCACCATACAGGAAGATTACTTGAGAGAGCTGCTGACAACCATGGG GGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTATTGATAAAAA GGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAAGA TGACTGAAATAACTTCAAATCCAGCCAAACGTTCTTGTGCCACTTTGGGTATTCTGA GATTNTCTCTTGCATGCCCTTAGCTNTACAGCTTTTGCATTTCTGTTGATTTATTCTC AGCCATNTGGGCATATGTATCTTTATAATCAGACTGAAACGGGACTCTCTATTAATAT CATTTTCAGAATNAAAATAGGATAATTTAACCTACCAGCCCTTCTCCNCNCACTGTGG TCTATACAGATCATATATCNTTTCAGAGAAAGTNATTGCTCGATTCTCTGAATCAT TATTAACCTCTATGATAAAAATAAAAAAAAAAAAAAACTCGCTCTAGATGCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006471
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_006471.2</a></u> , <u><a href="#">NP_006462.1</a></u>
<b>RefSeq Size:</b>	1243 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	10627
<b>UniProt ID:</b>	<u><a href="#">P19105</a></u>
<b>Cytogenetics:</b>	18p11.31
<b>Domains:</b>	EFh
<b>Protein Pathways:</b>	Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

**Gene Summary:**

This gene encodes a nonsarcomeric myosin regulatory light chain. This protein is activated by phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 8.[provided by RefSeq, Dec 2014]

Transcript Variant: This variant (1) encodes the shorter isoform (1). Variants 1, 2 and 3 encode the same isoform (1).