

## Product datasheet for **SC119884**

### Myosin Light Chain 2 (MYL2) (NM\_000432) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin Light Chain 2 (MYL2) (NM_000432) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin Light Chain 2
Synonyms:	CMH10; MLC-2s/v; MLC2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000432 edited ATGGCACCTAAGAAAGCAAAGAAGAGAGCCGGGGCGCCAACCTCAACGTGTTCTCCATG TTCGAACAGACCCAAATCCAGGAATTTAAGGAGGCCTTCACTATCATGGACCAGAACAGG GATGGCTTCATTGACAAGAACGATCTGAGAGACACCTTTGCTGCCCTTGGGCGAGTGAAC GTGAAAAATGAAGAAATTGATGAAATGATCAAGGAGGCTCCGGGTCCAATTAACCTTACT GTGTTCTCACAATGTTTGGGGAGAACTTAAGGGAGCGGACCTGAGGAAACCATTCTC AACGCATTCAAAGTGTGGACCTGAAGGCAAAGGGTGTGAAGGCTGATTACGTTTCGG GAAATGCTGACCACGCAGGCGGAGAGGTTTTCAAGGAGGAGTTGACCAGATGTTCCGC GCCTTCCCCCTGACGTGACTGGCAACTGGACTACAAGAACCTGGTGCACATCATCACC CACGGAGAAGAGAAGGACTAG



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000432 unedited  TTCAGGATTTGAATACNATTATATAGGGCGGCCGCGATTTCGGCACGAGGCTCGGGAGGCA  GTGCTGGGTCTTTCCACCATGGCACCTAAGAAAGCAAAGAAGAGAGCCGGGGCGCCAA  CTCCAACGTGTTCTCCATGTTTCAACAGACCCAAATCCAGGAATTTAAGGAGGCCTTAC  TATCATGGACCAGAACAGGGATGGCTTCATTGACAAGAACGATCTGAGAGACACCTTTC  TGCCCTTGGGCGAGTGAACGTGAAAAATGAAGAAATTGATGAAATGATCAAGGAGGCTCC  GGGTCCAATTAACCTTTACTGTGTTCCCTACAATGTTTGGGGAGAAAATTAAGGGAGCGGA  CCCTGAGGAAACCATTCTCAACGCATTCAAAGTGTGGACCTGAAGGCAAAGGGGTGCT  GAAGGCTGATTACGTTCCGGAAATGCTGACCACGAGGCGGAGAGGTTTTCCAAGGAGGA  GGTTGACCAGATGTTCCGCCCTTCCCCCTGACGTGACTGGCAACTTGGACTACAAGAA  CCTGGTGACATCATCCCCACGGAGAAGAGAAGGACTAGGAGGGGGCTCGCTGCTGCGC  CCTGNGCTCGTCTTTCAGAGTGGTCCCTGCCCTCATCTCTCCCCGAGTACCGCCTC  TGTCCTTACCTGTCTGTTAGCCATGTGGCTGCCCATTTATCCACCTCCATCTTCTTT  GCAGCCTGNGTGGCTATGGTACTTCGTGGGCGCACATCTACAGTTGAAAAACCATCCC  GAAGCCATGTTCCATTAACCAGAGGTCGTGTATTTGGTCAAAAAAAAAAAAAAACTCG  ACTTTAATTGCGCCCGCGCATTGCTGTTTCTGAACAAACCCGGGTGGCATCCTTGGGA  CCCTCCCATGGCTTTTCTGGC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000432 unedited  CGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGACCAATACACGACCTCTG  TTTATTGGAACATGGCCTCTGTGAGGATTTCCAAGTGTAGGATGTGCGGCCACGAAGTAC  CCATAGCCACCCAGGCTGCAAAGAAGATGGAGGTGGATAAATGGGGCAGCCACATGGCTA  ACAGACAAGGTAGGGACAGAGGCGTACTCGGGGAGAGAGATGAGGGCAGGGACCACTC  TGCAAAGACGAGCCCAGGGCGCAGCAGGAGCCCTCCTAGTCCTTCTTCTCCGTGG  GTGATGATGTGCACCAGGTTCTTGTAGTCCAAGTTGCCAGTCACGTCAGGGGGGAAGGCG  GCGAACATCTGGTCAACCTCCTCCTTGGAAAACCTCTCCGCTGCGTGGTCAGCATTTCC  CGAACGTAATCAGCCTTCAGCACCCCTTGCCTCAGGGTCAAACACTTTGAATGCGTTG  AGAATGGTTTTCTCAGGGTCCGCTCCCTTAAGTTTCTCCCAACATTGTGAGGAACACA  GTAAAGTTAATTGACCCGGAGCCTTCTGTATCATTTCAATTTCTTCATTTTTACG  TTCACCTGCCCCAAGGCCAGCAAAGGTGTCTCTCAGATCGTTCCTTGCCAATGAAGCCATCC  CCTGTCTCGTCCATGATAGTGAAGGCCTCCTTAAATTTCTGGATTTGGGTCTGTTCGAC  CATGGAGGACACGTTGGAGTTGGCGCCCCCGTCTCTTCTTTGCTTTNNTAGCNGCC  ATGCTGAAAAGGACCAATACTGCCTCCCGATCCTGGGCCGATTTTGGCCCGCCTTTGTG  AGTTGTATTACCAATTTTACGGTACCTAACAACTCTGTTTAAACCTCCACCGTAC  ACCCTACCGCCATTTGGGCAAGCGGGCGGTTATTACAACTTTGGAAGCCCGTGAATT  GGGGCCAAACTCCCTTGGACCCAGGGGTGGAACTGTAACCCGGGGGCAAACGTTTTCC  GCCCTTGGGC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000432
<b>Insert Size:</b>	720 bp
<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>	<a href="#">NM_000432.1</a> , <a href="#">NP_000423.1</a>
<b>RefSeq Size:</b>	813 bp
<b>RefSeq ORF:</b>	501 bp
<b>Locus ID:</b>	4633
<b>UniProt ID:</b>	<a href="#">P10916</a>
<b>Cytogenetics:</b>	12q24.11
<b>Domains:</b>	EFh
<b>Protein Pathways:</b>	Cardiac muscle contraction, Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction
<b>Gene Summary:</b>	Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca <sup>+</sup> triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]