

Product datasheet for **SC110955**

Myosin (MYL5) (NM_002477) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin (MYL5) (NM_002477) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin
Synonyms:	MYLC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002477, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAGCAGGAAGACCAAGAAGAAGGAAGGGGTGCCCTCCGGGCCAGAGAGCCTCATCCAATGTCT
TCTCCAAC TTTGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTCACACTCATGGATCAGAACCGAGA
TGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGGGCAAGACCAACGTCAAGGACGAC
GAGCTGGACGCCATGCTCAAAGAGGCCTCGGGGCCATCAACTTCACCATGTTTCTGAACCTGTTTGGGG
AGAAGCTGAGCGGTACCGACGCCGAGGAGACCATTCTTAACGCCTTCAAGATGCTGGACCCGACGGGAA
AGGGAAAATCAACAAGGAGTACATCAAGCGTCTGCTGATGTCCCAGGCTGACAAGATGACGGCGGAAGAG
GTGGACCAGATGTTCCAGTTCGCCTCCATCGATGTGGCGGCAACCTGGACTACAAGGCGCTCAGCTACG
TGATCACCCACGGGGAGGAGAAGGAGGAGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002477 unedited TGTACTACGATCACTATAGGGCGCCCGCGATTTCGGCACGAGGTGAGCGTGTGTATGTG CGTGTGTGTGACCTTGCGGGTGTGGGCTGTGCTGTGTTGTGGGAAGTACGTGCCTCACGT TGCTCTCCTGGTGAAGTCCGGAGCAGGATGAGGGGGTTCCTGGCTTTCACAAAATCCCG GTACCCAGAACAAGCCCACCCAGAGTCCACTTGCCCTCAAGCCTTCAGAGGCCAAGCTG GCTCCTGCTGGACGGCGATCCCTGACCCTGTGCTCTGTGGCCTTCTGGAAGCCACTGT CCCTCCCCAGTCCCTGTGCTGAAGCCAGACACCTGCAGCCGCTCCGCCCAACCCAG CTACCCAGGCCTGAGGCTGGCATGCTCCTCAGCTGTCTGGCCCCCTCCAGCCCGAAGGGC TGAGGTCCACCCTTCATCTGAGTTAAGTCTCTCAAACTCTGGGTGCCCTGGAGGGTTTC GTCAGCCAGCCCAGGACCCTCAGCCATGGTGTCTCCACCCAGGCCAGCAGGAAGACCAA GAAGAAGGAAGGGGTGCCCTCCGGGCCAGAGAGCCTCATCCAATGTCTTCTCAAATTT TGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTACACTCATGGATCAGAACCAGAGA TGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGNGCAAGACCAACGT CAAGGACGACGAGCTGGACGCCATGCTCNAAGAGCCTCGGGGCCATCAACTTACCATG TTTCTGACCTGTTTGGGGAGAAGCTGAGCGTTACCGACGCCGAGAGACATTCTTNACG CCTTCAGATGCTNGACCCGNCAGGGAAAGGAAATCACAAGAGTACTCACGCGCTGTGAG TCCCAGCTGACAGATGACGCGAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002477 unedited GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCAGGG TCCAAGCGTCCAGGTTTATTGACCCGGCTGGGTCTCACTCCTCCTCCTCCCCGGGG TGATCACGTAGCTGAGCGCCTTGTAGTCCAGGTTGCCCGCCACATCGATGGAGGCGAACT GGAACATTTGGTCCACCTTTTCCGCCGTCATCTTGTGAGCCTGGGACATCAGCAGACGCT TGATGTACTCCTTGTGATTTTCCCTTTCCCGTCCGGGTCCAGCATCTTGAAGGCGTTAA AAATGGTCTCCTCGGCGTCGGTACCGCTCAGCTTCTCCCAAACAGGTTCAAAAACATGG TGAAGTTGATGGGCCCGAGGCCTTTTGGATGGCGTCCAGCTCGTCGTCTTGACGT TGGTCTTGCCAGGGAGGCATAGGTGTCCTTCAGGTCCTCCTTGTCAATGAAGCCATCTC GGTCTGATCCATGAGTGTGAATGCCTCCTTGAACCTCTGGATCTGAGTCTGCTCAAAGT TGGAGAAGACATATGGATGAGGCTCTCTGGGCCGGAGGGCACCCCTTCTTCTTCTTG GTCTTCTGCTGGCCTGCGGTGGGAGCACCATGGCTGAGGGTCTGNGCTGGCTGACGAA ACCCTCCAGGGCACCCAGAGTTTTGAGAGACTTAACTCAGATGAAGGGTGGACCTCAGCC CTTTCGGCTGGAGGGGCCANACAGCTGAGGAGCATGCCAACCTCAGGCCTGGGTTACCT GGGGTTGGGGCAAGACGGCTGCCAGTTTTTGGCTTAACACAGGCACTTGGGGATGCACA GTTGGTTCAAAAGCCCACCAGACCCAGGGTCAAGTATCGCCCTCCACCAAGAACCACC TTGGCTTCTGAAGCTTGAGGGGAAGTGGATCTTGGTCGCGCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002477
Insert Size:	1060 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_002477.1](#), [NP_002468.1](#)

RefSeq Size: 661 bp

RefSeq ORF: 522 bp

Locus ID: 4636

UniProt ID: [Q02045](#)

Cytogenetics: 4p16.3

Domains: EFh

Protein Pathways: Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

Gene Summary: This gene encodes one of the myosin light chains, a component of the hexameric ATPase cellular motor protein myosin. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene product, one of the regulatory light chains, is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) encodes the longer isoform (1).