

Product datasheet for **SC118608**

Myosin (MYL4) (NM_002476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin (MYL4) (NM_002476) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin
Synonyms:	ALC1; AMLC; GT1; PRO1957
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118608 sequence for NM_002476 edited (data generated by NextGen Sequencing)

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ATGGCTCCCAAGAAGCCTGAGCCTAAGAAGGAGGCAGCCAAGCCAGCTCCAGCTCCAGCT  
CCAGCCCCTGCACCAGCCCCTGCCCCAGCTCCTGAGGCTCCCAAGGAACCTGCCTTTGAC  
CCCAAGAGTGTAAGATAGACTTCACTGCCGACCAGATTGAAGAGTTCAAAGAGGCCTTT  
TCATTGTTTGACCGGACCCCGACTGGAGAGATGAAGATCACCTACGGCCAGTGCGGGGAT  
GTACTGCGGGCCCTGGGCCAGAACCCTACCAATGCCGAGGTGCTGCGTGTGCTGGGCAAG  
CCCAAGCCTGAAGAGATGAATGTCAAGATGCTGGACTTTGAGACGTTCTTGCCCATCCTG  
CAGCACATTTCCGCAACAAGGAGCAGGGCACCTATGAGGACTTCGTGGAGGGCCTGCGT  
GTCTTTGACAAGGAGAGCAATGGCACGGTCATGGGTGCTGAGCTTCGGCACGTCCTTGCC  
ACCTGGGAGAGAAGATGACTGAGGCTGAAGTGGAGCAGCTGTTAGCTGGGCAAGAGGAT  
GCCAATGGCTGCATCAATTATGAAGCCTTTGTCAAGCACATCATGTCAGGGTGA
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Clone variation with respect to NM_002476.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002476 unedited NTTTCATTACCCCGCCCGTTGNAGCAAAGGGCGGTAGGCGGTACGGTGGNGAGTCTATAT AAGCAGAGCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCC GCGAATTCGGCACCAGGACGCCACGTCTCTCGGTTTCTTCTTAGATCACTCCTCTGCCAA AGATCCCAACAAGACAACATGGCTCCCAAGAAGCCTGAGCCTAAGAAGGAGGCAGCCAAG CCAGCTCCAGCTCCAGCTCCAGCCCTGCACCAGCCCTGCCCCAGCTCCTGAGGCTCCC AAGGAACCTGCCTTTGACCCCAAGAGTGTAAAGATAGACTTCACTGCCGACCAGATTGAA GAGTTCAAAGAGGCCTTTTCATTGTTTGACCGGACCCCGACTGGAGAGATGAAGATCACC TACGGCCAGTGGCGNGATGTACTGCGGGCCCTGGGCCAGAACCCCTACCAATGCCGAGGTG CTGCGTGTGCTGGGCAAGCCAAGCCTGAGAGATGAATGTCAAGATGCTGGACTTTGAGAC GTTCTTGCCCATCTGCAGCACATTTTCCGCAACAGGGAGCAGGGCACCTATGAGGACTT CGTGGAGGGCCTGCGTGTCTTTGACCAGGGAGAGCATGGCACGGTCATGGGGTGTGAGC TTCGGCACGTCTTTGCCACCCTGGNAGAAGAAATGACTGAGGGCTGAGTGGACNCACTG TTANCTGGGCCAGAGGATGCCAAGGGCTGCATCAATTATTGAAGCCTTTTCCAGCACATC AGGTCCGGGTGAAACAAAATCCTTCAGGTGCTGGGCCTTGCGCTTAAACCCTACCAGGGTG ATTAATAAAAGGCCCGGGCTGGTGAACCGAAAGGGAACCCCGAATAAACCACCCCGTG CCA
Restriction Sites:	NotI-NotI
ACCN:	NM_002476
Insert Size:	800 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:	<ol style="list-style-type: none"> 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_002476.2 , NP_002467.1
RefSeq Size:	855 bp
RefSeq ORF:	594 bp
Locus ID:	4635
UniProt ID:	P12829
Cytogenetics:	17q21.32

Gene Summary:

Myosin is a hexameric ATPase cellular motor protein. It is composed of two myosin heavy chains, two nonphosphorylatable myosin alkali light chains, and two phosphorylatable myosin regulatory light chains. This gene encodes a myosin alkali light chain that is found in embryonic muscle and adult atria. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks the 5' exon but has an alternate 5' end, as compared to variant 1.