

Product datasheet for SC125614

Myosin Light Chain 2 (MYL2) (BC015821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin Light Chain 2 (MYL2) (BC015821) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin Light Chain 2
Synonyms:	cardiac ventricular myosin light chain 2; CMH10; DKFZp779C0562; MLC2; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin light chain 2; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; regulatory light chain; RLC of myosin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for BC015821 edited</p> <pre>GGGGGGCGGAGTGTGGAATTCCTCTCGGGAGGCAGTGCTGGGTCCTTCCACCATGGCAC CTAAGAAAGCAAAGAAGAGAGCCGGGGCGCCAACCTCAACGTGTTCTCCATGTTTCGAAC AGACCCAAATCCAGGAATTTAAGGAGGCCTTCACTATCATGGACCAGAACAGGGATGGCT TCATTGACAAGAACGATCTGAGAGACACCTTTGCTGCCCTTGGGCGAGTGAACGTGAAAA ATGAAGAAATTTGATGAAATGATCAAGGAGGCTCCGGGTCCAATTAACCTTACTGTGTTCC TCACAATGTTTGGGGAGAACTTAAGGGAGCGGACCTGAGGAAACCATTCTCAACGCAT TCAAAGTGTTTGACCCTGAAGGCAAAGGGTGCTGAAGGCTGATTACGTTTCGGGAAATGC TGACCACGCAGGCGGAGAGGTTTTCCAAGGAGGAGTTGACCAGATGTTGCGCCGCTTCC CCCCTGACGTGACTGGCAACTTGGACTACAAGAACCTGGTGCACATCATACCCACGGAG AAGAGAAGGACTAGGAGGGGGCTCGCTGCTGCGCCCTGGGCTCGTCTTTCAGAGTGGTC CCTGCCCTCATCTCTCCCCCGAGTACCGCTCTGTCCCTACCTTGTCTGTTAGCCATG TGGCTGCCCCATTTATCCACCTCCATCTTCTTTCAGCCTGGGTGGCTATGGGTACTTCG TGGCCGCACATCCTACAGTTGAAATCCATCCAGAGGCCATGTTCCAATAAACAGGAGGT CGTGATTTGGTCACGACATTTCTGTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</pre>



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC015821 unedited NCCCGTCAGAATTTGTATACGACTCATATAGGGCGGCCGGAATCTTCTCGGGNAGCAGT GCTGGGTCCTTTCCACCATGGCACCTAAGAAAGCAAAGAAGAGAGCCGGGGCGCCAACT CCAACGTGTTCTCCATGTTTGAACAGACCCAAATCCAGGAATTTAAGGAGGCCTTCACTA TCATGGACCAGAACAGGGATGGCTTCATTGACAAGAACGATCTGAGAGACACCTTTGCTG CCCTTGGGCGAGTGAACGTGAAAAATGAAGAAATTGATGAAATGATCAAGGAGGCTCCGG GTCCAATTAACCTTACTGTGTTCCCTCACAATGTTTGGGGAGAACTTAAGGGAGCGGACC CTGAGGAAACCATTCTCAACGCATTCAAAGTGTTTGACCCTGAAGGCAAAGGGGTGCTGA AGGCTGATTACGTTCCGGAAATGCTGACCACGCAGGCGGAGAGGTTTTCAAGGAGGAGG TTGACCAGATGTTTCGCCCTTCCCCCTGACGTGACTGGCAACTTGGACTACAAGAACC TGGTGCACATCATCACCCACGGAGAAGAGAAGGACTAGGAGGGGGCTCGTGCTGCGCCC TGNGCTCGTCTTTCAGAGTGGTCCCTGCCCTCATCTCTCCCCGAGTACCGCCTCTG TCCCTACCTTGCTGTTAGCCATGTGGCTGCCCATTTATCCACCTCCATCTTCTTTGCA GCCTGGGTGGCTATGGTACTTCGTGGCCGCACATCCTACAGTTGAAATCCATCCAGAG GCCATGTTCCANATAACAGGGAGTCGTGATTTGGTACGACATTTCTCTGATNNNNAAA AANNNNNNNNNAAAACATGTCGGCCCGCTCGGCCCTCGAGAAGCTTTCTAGATTGCGG CCGCGG
Restriction Sites:	Please inquire
ACCN:	BC015821
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	BC015821.1 , AAH15821.1
RefSeq Size:	834 bp
Locus ID:	4633

Cytogenetics:	12q24.11
Protein Pathways:	Cardiac muscle contraction, Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction
Gene Summary:	Thus gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca ⁺ 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]