

Product datasheet for SC120113

MYL12B (NM_033546) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYL12B (NM_033546) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL12B
Synonyms:	MLC-B; MRLC2
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC120113 sequence for NM_033546 edited (data generated by NextGen Sequencing) ATGTCGAGCAAAAAGGCCAAAGACCAAGACCACCAAGAAGCGCCCTCAGCGTGCAACATCC AATGTGTTTGCYATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATG ATTGATCAGAACAGAGATGGYTTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCT CTAGGGAAGAATCCCACTGATGCATACCTTGATGCCATGATGAATGAGGCYCCAGGGCCC ATCAATTTACCATGTTCCTSACCATGTTTGGTGAGAAGTTAAATGGCACAGATCCTGAA GATGTCATCAGAAAYGCCTTTGCTTGCTTTGATGAAGAAGCAACWGCACCATTCAGGAA GATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGATGAGGAAGTGGAT GAGCTGTACAGAGAAGCACCTATTGAYAAAAAGGGGAATTTCAATTACATCGAGTTCACA CGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTGA Clone variation with respect to NM_033546.3 72 c=>y;141 c=>y;231 c=>y;261 g=>s;315 c=>y;345 a=>w;447 c=>y



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_033546 unedited TGTATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGGTGTTTGGCGTCGGAA TTAAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACCACCAAGAAGCGCCCTCA GCGTGCAACATCCAATGTGTTTGCCATGTTTGACCAGTCACAGATTGAGGAGTTCAAAGA GGCCTTCAACATGATTGATCAGAACAGAGATGGCTTCATCGACAAGGAAGATTTGCATGA TATGCTTGCTTCTAGGGAAGAATCCCCTGATGCATACCTTGATGCCATGATGAATGA GGCCCCAGGGCCCATCAATTTACCATGTTCTGACCATGTTTGGTGAGAAGTTAAATGG CACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATGAAGAAGCAACAGG CACCATTAGGAAGATTACCTAAGAGAGCTGCTGACAACCATGGGGGATCGGTTTACAGA TGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTATTGACAAAAAGGGGAATTTCAATTA CATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAAGATGACTGAAAGAACTT TAGCTAAAATCTCCAGTTACATTGTCTTACTCTCTTTTACTTCTCAGACACTTCCCCCA CCCTCATAGAACCTGTTGCATGCAACTTAGTTTACAGCTTTGCCTCTTCTTTTGTATGT ATTTATCCAGACCTTTCTGCCACTTAGCACTTGATAATCAGACTGGAATGGGGATGA GGGTGTAATTTGATTGAAAAAGATCGCGAATAAAAATCAACAAATGTGAAAGCCAGAA NNAAAAAAAAAAAACTCGACTTAGATTGCNNGCCGCGTCATAGCTGTTTCTTGACAG ATCCCCGGNTGGCATCCTT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_033546 unedited GCGGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTGGGCTTCCATTGTTG ATTTTTATTTCGCGATCTTTTTCAATACAATTTACACCCTCATCCCCATTTCCAGTCTGAT TATACAAGTGCTAAGTGGCAGAAAGGTCTGGAATAAATACATCAAAAAGAAGAGGCAAAG CTGTGAAACTAAGTTGCATGCAACAGTTCTATGAGGGTGGGGAAAGTGTCTGAGAAGTA AAAGAGAGTAAGACAATGTAAGTGAAGATTTAGCTAAAGTTCTTTCAGTCATCTTTGT CTTTGGCTCCATGTTTCAGGATGCGTGTGAAGTCTGTAATGAAATTTCCCTTTTTGT CAATAGGTGCTTCTGTACAGCTCATCCACTTCTCATCTGTAACCGATCCCCATGG TTGTCAGCAGCTCTTTCAGTAATCTTCTGAATGGTGCCTGTTGCTTTCATCAAAGC AAGCAAAGGCGTTTCTGATGACATCTTCAGGATCTGTGCCATTTAACTTCTCACCAAACA TGGTCAGGAACATGGTGAATTTGATGGCCCTGGGGCCTCATTATCATGGCATCAAGGT ATGCATCAGTGGGATTTCTCCCTAGAGAAGCAAGCATATCATGCAAACTTTCTTGTGCGA TGAAGCCATCTCTGTTCTGATCAATCATGTTGAAGGCCTTTGAACTCTGAACTGTG ACTGGTCAAACATGGCAAACACATTGGATGTTGCACGCTGAGGGCGCTTCTTGGAGTCTT GGTCTTTGCCTTTNTGCTCGAATGGGGNNTGTTAATTCGACCCAAACACCCCTCGTGC CGAATTCGCGGCCGCTATAGTGAGTCGTATACAAAATCTGACGGTCACTAACGAGCCTG CTATATGACCNCCACGTACAGCCTACGCCATTTGGTNACGGGGCGGGTATACAATTTG
Restriction Sites:	NotI-NotI
ACCN:	NM_033546
Insert Size:	820 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).
RefSeq:	NM_033546.2 , NP_291024.1
RefSeq Size:	878 bp
RefSeq ORF:	519 bp
Locus ID:	103910

UniProt ID:	<u>O14950</u>
Domains:	EFh
Protein Pathways:	Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction
Gene Summary:	<p>The activity of nonmuscle myosin II (see MYH9; MIM 160775) is regulated by phosphorylation of a regulatory light chain, such as MRLC2. This phosphorylation results in higher MgATPase activity and the assembly of myosin II filaments (Iwasaki et al., 2001 [PubMed 11942626]). [supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-3 all encode the same protein.</p>