

Product datasheet for **SC324759**

MYL12B (NM_001144944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYL12B (NM_001144944) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL12B
Synonyms:	MLC-B; MRLC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001144944 edited GGTGTGGCGTCGGAATTAACAACCACCATGTCGAGCAAAAAGGCAAAGACCAAGACC ACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTTTGCCATGTTTGACCAAGTACAG ATTCAGGAGTTCAAAGAGGCCTTCAACATGATTGATCAGAACAGAGATGGCTTCATCGAC AAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAAATCCCACTGATGCATACCTT GATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTTACCATGTTCTGACCATGTTT GGTGAGAAGTTAAATGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTT GATGAAGAAGCAACAGGCACCATTCAGGAAGATTACCTAAGAGAGCTGCTGACAACCATG GGGGATCGGTTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTATTGACAAA AAGGGGAATTTCAATTACATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAA GATGACTGAAAGAACTTTAGCTAAAATCTCCAGTTACATTGTCTTACTCTCTTTTACTT CTCAGACACTTCCCCACCCTCATAGAACCTGTTGCATGCAACTTAGTTTACAGCTTTG CCTCTTCTTTTATGATGATTTTATCCAGACCTTTCTGCCACTTAGCACTTGATAATCAG ACTGGAATGGGGATGAGGGTGTAAATTGTATTGAAAAAGATCGCGAATAAAAAATCAACA AATGTGAAAGCCCAGAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_001144944
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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001144944.1</u> , <u>NP_001138416.1</u>
RefSeq Size:	1041 bp
RefSeq ORF:	519 bp
Locus ID:	103910
UniProt ID:	<u>Q14950</u>
Cytogenetics:	18p11.31
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 (1) represents the longest transcript. Variants 1-3 all encode the same protein.</p>