

Product datasheet for **SC325526**

MYL12B (NM_001144946) Human Untagged Clone

Product data:

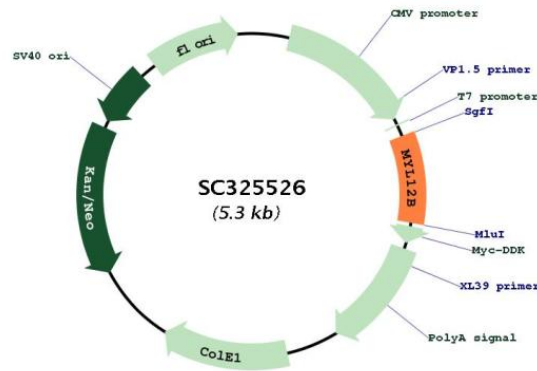
Product Type:	Expression Plasmids
Product Name:	MYL12B (NM_001144946) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYL12B
Synonyms:	MLC-B; MRLC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325526 representing NM_001144946. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGAGCATGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCCTTCAACATGATT
GATCAGAACAGAGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGAAGAAT
CCCACTGATGCATACCTTGATGCCATGATGAATGAGGCCCCAGGGCCCATCAATTCACCATGTTCTG
ACCATGTTTGGTGAAGTTAAATGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTT
GATGAAGAAGCAACAGGCACCATTAGGAAGATTACCTAAGAGAGCTGCTGACAACCATGGGGATCGG
TTTACAGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTATTGACAAAAAGGGGAATTTCAATTAC
ATCGAGTTCACACGCATCCTGAAACATGGAGCCAAAGACAAGATGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:


ACCN:	NM_001144946
Insert Size:	465 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).
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:

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_001144946.1](#)

RefSeq Size: 968 bp

RefSeq ORF: 465 bp

Locus ID: 103910

Cytogenetics: 18p11.31

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

MW: 17.8 kDa

Gene Summary: 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]
Transcript Variant: This variant (4) differs in the 5' UTR and lacks an in-frame exon region, compared to variant 1. These differences result in a shorter protein (isoform B), compared to isoform A.