

## Product datasheet for MR201457

### Myl12b (NM\_023402) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myl12b (NM\_023402) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Myl12b  
**Synonyms:** 1500001M02Rik; C77744; Mylc2b; RLC-B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201457 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGAGCAAAAAGCGAAGACCAAGACCACCAAGAAGCGCCCTCAGCGCGCAACCTCCAATGTGTTCC  
 CCATGTTTGACCAGTCCCAGATCCAGGAGTTCAAAGAGGCCTTTAACATGATTGACCAGAACCGGGATGG  
 CTTCAATTGACAAGGAGGACCTGCACGACATGCTGGCGTCTCTGGGAAGAATCCCACTGATGCCTACCTG  
 GACGCCATGATGAACGAGGCCCGGGCCCATCAATTTACCATGTTCTCACCATGTTTGGGAGAAGC  
 TGAAACGGCACTGACCCCGAGGACGTCATCAGAAACGCCTTCGCTTGTCTTGGATGAGGAAGCCACAGGCAC  
 CATCCAGGAGGATTACCTGAGGGAGCTGCTGACCACCATGGGCGACCGCTTCACAGACGAGGAAGTGGAT  
 GAGCTGTACAGAGAGGCCCCATTGACAAAAAGGGGAACCTCAACTACATTGAGTTCACACGCATCTCTGA  
 AGCACGGCGCAAAAGACAAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201457 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSKKAKTKTKKRPQRATSNVAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGNPTDAYL  
 DAMMNEAPGPINFMTFLTMFGEKLNQDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGRDFTDEEVD  
 ELYREAPIDKKGFNFIIEFTRILKHGAKDKDD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_023402

**ORF Size:** 519 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_023402.1](#), [NM\\_023402.2](#), [NP\\_075891.1](#)

**RefSeq Size:** 939 bp

**RefSeq ORF:** 519 bp

**Locus ID:** 67938

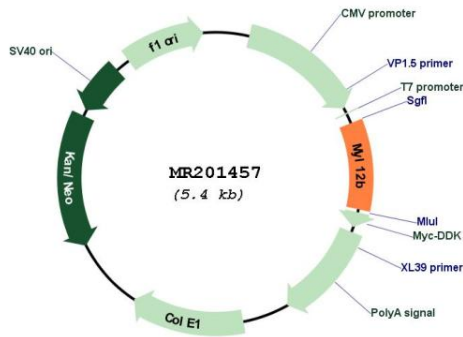
**UniProt ID:** [Q3THE2](#)

**Cytogenetics:** 17 E1.3

**MW:** 19.8 kDa

**Gene Summary:** Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Phosphorylation triggers actin polymerization in vascular smooth muscle. Implicated in cytokinesis, receptor capping, and cell locomotion.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201457