

Product datasheet for **RG227035**

MYL12B (NM_001144946) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MYL12B (NM_001144946) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MYL12B
Synonyms: MLC-B; MRLC2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227035 representing NM_001144946
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGAGCATGTTTGCCATGTTTGACCAGTCACAGATTCAGGAGTTCAAAGAGGCCTTCAACATGATTG
ATCAGAACAGAGATGGCTTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCTCTAGGGAAGAATCC
CACTGATGCATACCTTGATGCCATGATGAATGAGGCCCCAGGGCCATCAATTTACCATGTTCTGACC
ATGTTTGGTGAAGTTAAATGGCACAGATCCTGAAGATGTCATCAGAAACGCCTTTGCTTGCTTTGATG
AAGAAGCAACAGGCACCATTCAGGAAGATTACCTAAGAGAGCTGCTGACAACCATGGGGATCGGTTTAC
AGATGAGGAAGTGGATGAGCTGTACAGAGAAGCACCTATTGACAAAAAGGGGAATTTCAATTACATCGAG
TTCACACGCATCTGAAACATGGAGCCAAAGACAAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227035 representing NM_001144946
Red=Cloning site Green=Tags(s)

MSSMFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDAYLDAMMNEAPGINFTMFLT
MFGKLNLTDPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDELRYEAPIDKKGFNFYIE
FTRILKHGAKDKDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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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_001144946.1, NP_001138418.1</u>
RefSeq Size:	968 bp
RefSeq ORF:	464 bp
Locus ID:	103910
Cytogenetics:	18p11.31
Protein Pathways:	Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction
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]