

Product datasheet for **RG236252**

MRCL3 (MYL12A) (NM_001303048) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MRCL3 (MYL12A) (NM_001303048) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MYL12A
Synonyms: HEL-S-24; MLC-2B; MLCB; MRCL3; MRLC3; MYL2B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236252 representing NM_001303048.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCGAGCAAAGAACAAGACCAAGACCAAGAAGCGCCCTCAGCGTGCAACATCCAATGTGTTTGT
ATGTTTGACCAAGTACAGATTACAGGAGTTCAAAGAGGCCCTCAACATGATTGATCAGAACAGAGATGGT
TTCATCGACAAGGAAGATTTGCATGATATGCTTGCTTCATTGGGAAGAATCCAACATGATGAGTATCTA
GATGCCATGATGAATGAGGCTCCAGGCCCATCAATTTACCATGTTCTCACCATGTTTGGTGAGAAG
TTAAATGGCACAGATCCTGAAGATGTCATCAGAAATGCCTTTGCTTTGCTTTGATGAAGAAGCAACTGGC
ACCATACAGGAAGATTACTTGAGAGAGCTGCTGACAACCATGGGGATCGGTTTACAGATGAGGAAGTG
GATGAGCTGTACAGAGAAGCACCTATTGATAAAAAGGGGAATTTCAATTACATCGAGTTACACGCATC
CTGAAACATGGAGCCAAAGACAAAGATGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236252
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSSKRTKTKTKRPQRATSNVAFMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHMLASLGNPTDEYL
DAMMNEAPGPINFMTFLTMFGEKLNQDTPEDVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEV
DELYREAPIDKKGNFNIEFTRILKHGAKDKDD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



[View online >](#)

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).
RefSeq:	NM_001303048.1 , NP_001289977.1
RefSeq Size:	974 bp
RefSeq ORF:	516 bp
Locus ID:	10627
UniProt ID:	P19105
Cytogenetics:	18p11.31
Protein Pathways:	Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction
MW:	20.2 kDa
Gene Summary:	This gene encodes a nonsarcomeric myosin regulatory light chain. This protein is activated by phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 8.[provided by RefSeq, Dec 2014]