

# Product datasheet for RC211412

### MYL9 (NM\_006097) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

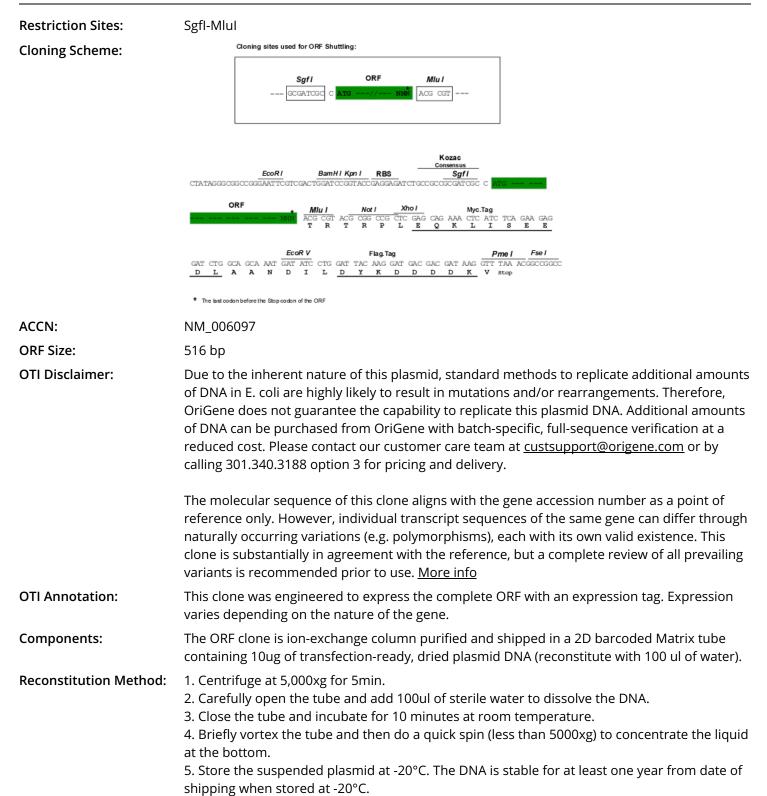
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

| Product Type:                | Expression Plasmids  |
|------------------------------|--|
| Product Name:                | MYL9 (NM_006097) Human Tagged ORF Clone  |
| Tag:                         | Myc-DDK  |
| Symbol:                      | MYL9   |
| Synonyms:                    | LC20; MLC-2C; MLC2; MMIHS4; MRLC1; MYRL2   |
| Mammalian Cell<br>Selection: | Neomycin   |
| Vector:                      | pCMV6-Entry (PS100001)   |
| E. coli Selection:           | Kanamycin (25 ug/mL)   |
| ORF Nucleotide<br>Sequence:  | <pre>&gt;RC211412 representing NM_006097 Red=Cloning site Blue=ORF Green=Tags(s)</pre>   |
|                              | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GC <mark>CGCGATCGC</mark> C  |
|                              | ATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGCGGGCCACATCCAATGTCTTCG<br>CAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTGACCAGAACCGTGATGG<br>CTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCCACAGACGAATACCTG<br>GAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTCCTCACCATGTTTGGGGAGAAGC<br>TGAACGGCACGGACCCCGAGGATGTGATTCGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTTT<br>CATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGGAACCGCTTCACAGATGAGGAAGTGGAC<br>GAGATGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCA<br>AACATGGCGCCAAGGATAAAGACGAC |
|                              | ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAG <b>GTTTAA</b>   |
| Protein Sequence:            | <pre>&gt;RC211412 representing NM_006097 Red=Cloning site Green=Tags(s)</pre>  |
|                              | MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYL<br>EGMMSEAPGPINFTMFLTMFGEKLNGTDPEDVIRNAFACFDEEASGFIHEDHLRELLTTMGDRFTDEEVD<br>EMYREAPIDKKGNFNYVEFTRILKHGAKDKDD   |
|                              | TRTRPLEQKLISEEDLAANDILDYKDDDDKV  |
| Chromatograms:               | https://cdn.origene.com/chromatograms/mk6482_a04.zip   |



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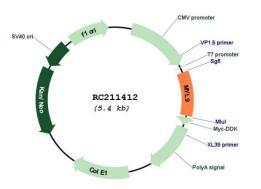
### Sourigene MYL9 (NM\_006097) Human Tagged ORF Clone – RC211412



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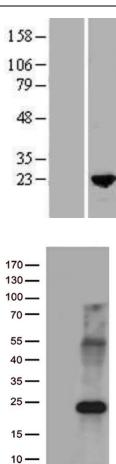
|                 | MYL9 (NM_006097) Human Tagged ORF Clone – RC211412  |
|-----------------|---|
| RefSeq:         | <u>NM 006097.5</u>  |
| RefSeq Size:    | 1212 bp   |
| RefSeq ORF:     | 519 bp  |
| Locus ID:       | 10398   |
| UniProt ID:     | <u>P24844</u>   |
| Cytogenetics:   | 20q11.23  |
| Domains:        | EFh   |
| Protein Pathway | <b>s:</b> Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction, Vascular smooth muscle contraction  |
| MW:             | 19.6 kDa  |
| Gene Summary:   | Myosin, a structural component of muscle, consists of two heavy chains and four light chains.<br>The protein encoded by this gene is a myosin light chain that may regulate muscle contraction<br>by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is<br>activated by myosin light chain kinase. Two transcript variants encoding different isoforms<br>have been found for this gene. [provided by RefSeq, Jul 2008] |

## **Product images:**



Circular map for RC211412

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Western blot validation of overexpression lysate (Cat# [LY416863]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211412 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYL9 (Cat# RC211412, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYL9 (Cat# [TA813394])(1:500).

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