

# Product datasheet for RC211412

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

### **Product data:**

#### OriGene Technologies, Inc.

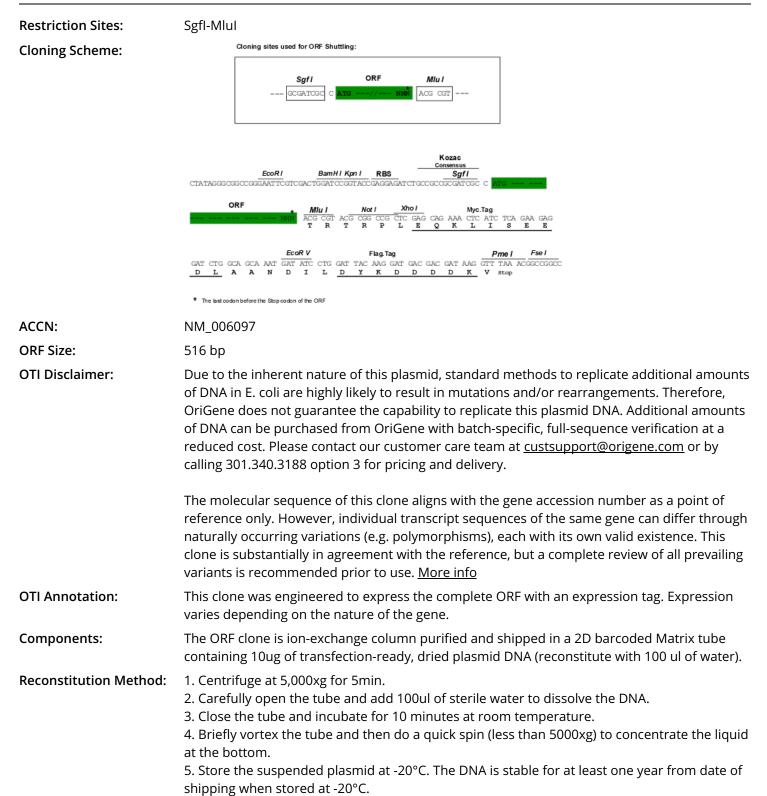
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Product Type:	Expression Plasmids
Product Name:	MYL9 (NM_006097) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYL9
Synonyms:	LC20; MLC-2C; MLC2; MMIHS4; MRLC1; MYRL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection: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



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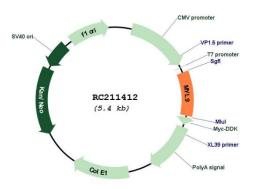
### Sourigene MYL9 (NM\_006097) Human Tagged ORF Clone – RC211412



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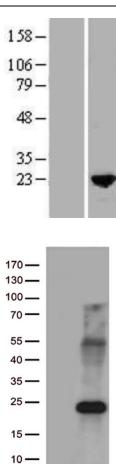
	MYL9 (NM_006097) Human Tagged ORF Clone – RC211412
RefSeq:	<u>NM 006097.5</u>
RefSeq Size:	1212 bp
RefSeq ORF:	519 bp
Locus ID:	10398
UniProt ID:	<u>P24844</u>
Cytogenetics:	20q11.23
Domains:	EFh
Protein Pathway	<b>s:</b> Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, 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. The protein encoded by this gene is a myosin light chain that may regulate muscle contraction by modulating the ATPase activity of myosin heads. The encoded protein binds calcium and is activated by myosin light chain kinase. Two transcript variants encoding different isoforms 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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