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Product datasheet for RC201080

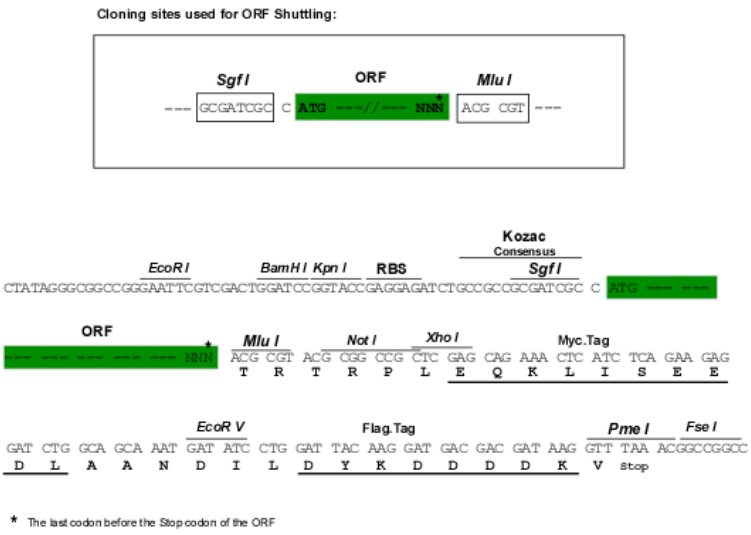
MYL9 (NM_181526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYL9 (NM_181526) 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:	>RC201080 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGCGGGCCACATCCAATGTCTTCG CAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTGACCAGAACCGTGATGG CTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGTTTCATCCATGAGGACCACCTCCGG GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGATGTACCGGGAGGCACCCA TTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCGCCAAGGATAAAGA CGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC201080 protein sequence Red=Cloning site Green=Tags(s) MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGFIHEDHLR ELLTTMGDRFTDEEVDEMYREAPIDKKGNFNYVEFTRILKHGAKDKDD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6390_f02.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_181526

ORF Size: 354 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_181526.3

RefSeq Size: 1054 bp

RefSeq ORF: 357 bp

Locus ID: 10398

UniProt ID: P24844

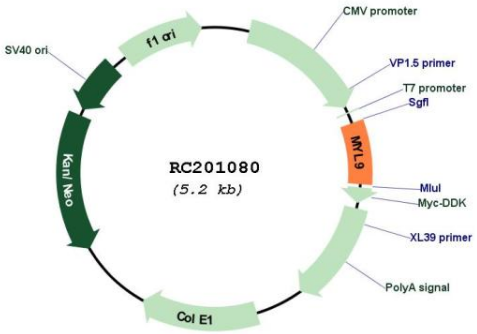
Cytogenetics: 20q11.23

Protein Pathways: Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction, Vascular smooth muscle contraction

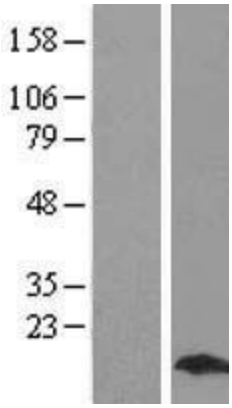
MW: 13.9 kDa

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]

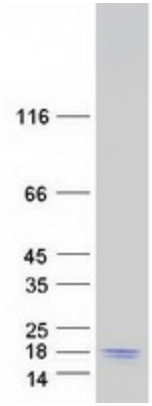
Product images:



Circular map for RC201080



Western blot validation of overexpression lysate (Cat# [LY405690]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201080 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYL9 protein (Cat# [TP301080]). The protein was produced from HEK293T cells transfected with MYL9 cDNA clone (Cat# RC201080) using MegaTran 2.0 (Cat# [TT210002]).