

Product datasheet for **RG201080**

MYL9 (NM_181526) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MYL9 (NM_181526) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MYL9
Synonyms: LC20; MLC-2C; MLC2; MMIHS4; MRLC1; MYRL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201080 representing NM_181526
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGCGGGCCACATCCAATGTCTTCG
 CAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTCAACATGATTGACCAGAACCCTGATGG
 CTTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGTTTCATCCATGAGGACCACCTCCGG
 GAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGATGTACCGGGAGGCACCCA
 TTGATAAGAAAGGCAACTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCGCCAAGGATAAAGA
 CGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201080 representing NM_181526
 Red=Cloning site Green=Tags(s)

MSSKRAKAKTTKKRPQRATSNVFAFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHMLASLGFIEDHLR
 ELLTTMGRDFTDEEVDEMYREAPIDKKGNFNYVEFTRILKHGAKDKDD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

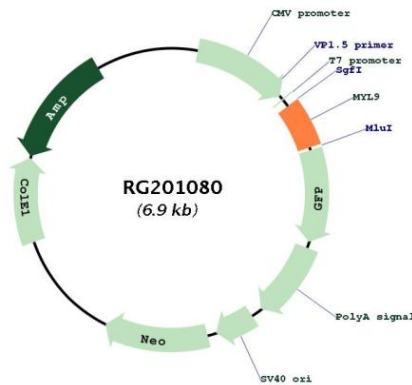
RefSeq: [NM_181526.3](#)

RefSeq Size: 1044 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
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 RG201080