

Product datasheet for **RR200346**

Myl1 (NM_020104) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myl1 (NM_020104) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myl1
Synonyms: Mcl3; MLC-f; Mlc1; Mlc3; MLC3-f; MLCf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR200346 representing NM_020104
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTTCAGTGCTGACCAGATTGCCGAATTCAGGAGGCATTTCTCTCTTCGACAGAACCGGTGAAT
 GCAAGATCACCTTAAGTCAGGTGGGCGACGTCCTCCGGGCTCTGGGCACCAATCCACAAATGCAGAAGT
 CAAGAAGTTCTCGGAACCTAGCAATGAAGAGATGAATGCTAAGAAAATCGAGTTGAACAGTTTCTG
 CCCATGATGCAAGCCATCTCCAACAACAAGGACCAGGGAGGCTATGAAGATTTCTGTGAGGGTCTGCGTG
 TCTTCGACAAGGAGGGCAATGGCACCGTCATGGGTGCTGAGCTCCGCCATGTCTCGCCACTCTGGGAGA
 GAAGATGAAGGAGGAGGAGGTAGAAGCATTGCTGGCGGGCCAGGAGGACTCCAATGGCTGCATCAACTAT
 GAAGCTTTTGAAACACATCATGTCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200346 representing NM_020104
 Red=Cloning site Green=Tags(s)

MSFSADQIAEFKEAFLFDRTGECKITLSQVGDVLRALGTNPTNAEVKKVLGNPSNEEMNAKKIEFEQFL
 PMMQAISNNKDQGGYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMKEEVEALLAGQEDSNGCINY
 EAFVKHIMSV

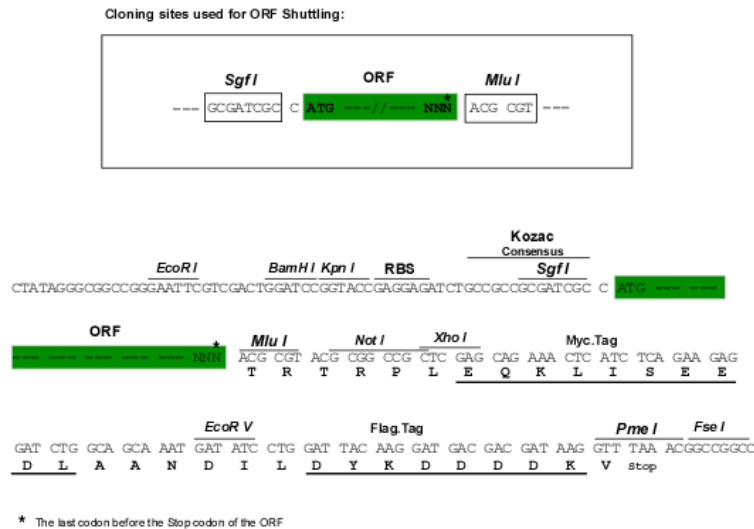
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_020104

ORF Size: 450 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_020104.2](#), [NP_064489.1](#)

RefSeq Size: 809 bp

RefSeq ORF: 453 bp

Locus ID: 56781

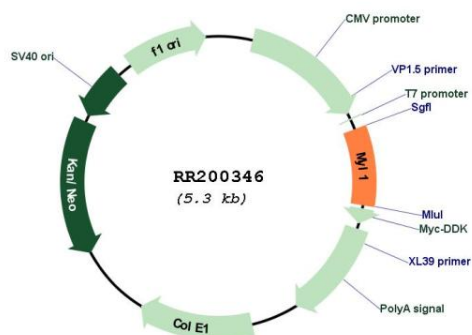
UniProt ID: [P02600](#)

Cytogenetics: 9q32

MW: 16.6 kDa

Gene Summary: Regulatory light chain of myosin. Does not bind calcium.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR200346