

Product datasheet for MR221651

Myl1 (NM_021285) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myl1 (NM_021285) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myl1
Synonyms: AI325107; D12Mgi4; MLC1; MLC1f; MLC3; MLC3f; Myl; Mylf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221651 representing NM_021285
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCAAAGAAAGACGTGAAGAAGCCCGCTGCTGCGCCTGCCCCAGCCCCGGCCCCGGCCCCTGCC
 CAGCCAAACCTAAGGAAGAAAAATCGATCTGTCTGCTATTAAGATCGAGTTCTCTAAGGAGCAACAGGA
 GGACTTCAAGGAGGCATTTCTCTGTTTGACAGAACAGGTGAATGCAAGATCACCTTAAGTCAGGTGGGA
 GACGTCCTCCGGCTCTGGCACCAATCCACCAATGCAGAGGTCAAGAAGTTCTTGGGAACCCAGCA
 ATGAAGAGATGAATGCTAAGAAAATCGAGTTTGAACAGTTTCTGCCATGATGCAAGCTATCTCCAACAA
 CAAGGACCAGGGAGGTTATGAAGATTCGTTGAGGGTCTGCGTGTCTTCCACAAGGAGGCAATGGCACC
 GTCATGGGTGCTGAACTCCGCCATGTCCTCGCCACTCTGGGAGAGAAGATGAAGGAGGAAGAGGTAGAAG
 CGTTGCTGGCAGGCCAGGAGGACTCCAATGGTGCATCAACTATGAAGCTTTTGTCAAACACATCATGTCT
 TGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221651 representing NM_021285
 Red=Cloning site Green=Tags(s)

MAPKKDVKKPAAAPAPAPAPAPAKPKEEKIDLSAIKIEFSKEQQEDFKEAFLFDRTGECKITLSQVG
 DVLRALGTNPTNAEVKKVLGNPSNEEMNAKKIEFEQFLPMMQAI SNNKDQGGYEDFVEGLRVFDKEGNGT
 VMGAELRHVLTATLGEKMKEEEVEALLAGQEDSNGCINYEAFVKHIMSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

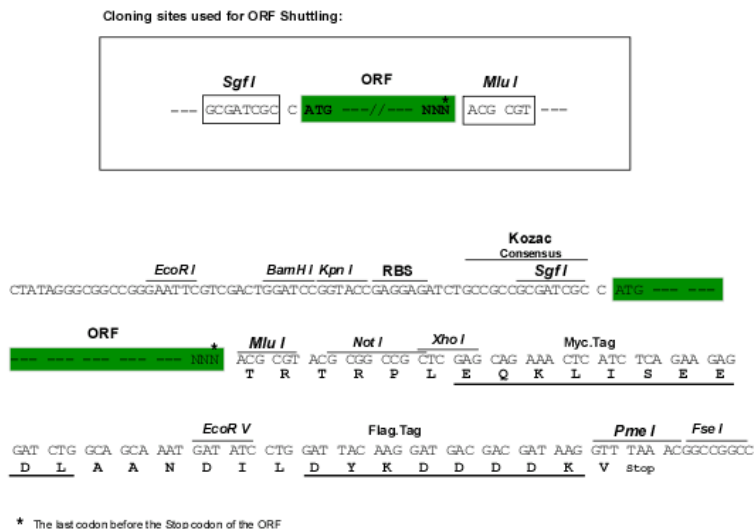


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Chromatograms: https://cdn.origene.com/chromatograms/mm9075_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021285

ORF Size: 564 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_021285.3](#), [NP_067260.1](#)

RefSeq Size: 1003 bp

RefSeq ORF: 567 bp

Locus ID: 17901

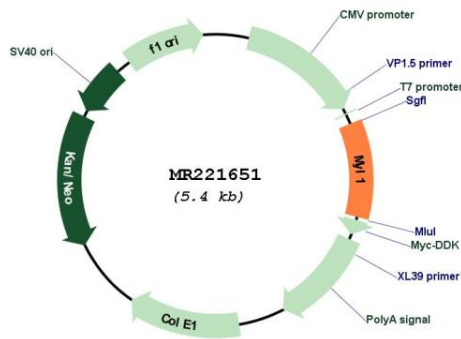
UniProt ID: [P05977](#)

Cytogenetics: 1 33.71 cM

MW: 20.6 kDa

Gene Summary: Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two non-phosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR221651