

Product datasheet for RC221618

myosin light chain 1 (MYL1) (NM_079420) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: myosin light chain 1 (MYL1) (NM_079420) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: myosin light chain 1
Synonyms: MLC1F; MLC3F; MYOFTA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221618 representing NM_079420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACCAAAGAAAGACGTGAAGAAACCTGTGGCTGCGGCTGCGGCTGCCAGCCCCGGCACCGGCAC
 CTGCACCTGCCCTGCCAGCCAAACCCAAAGAAGAAAAATTGACCTCTGCCATTAAGATCGAGTT
 CTCTAAGAACAGCAGGATGAATCAAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGATTCCAAGATC
 ACCTTAAGCCAGGTCGGTATGTCCTTCGAGCTCTGGGCACAAATCCCACCAATGCAGAGGTCAGGAAAG
 TTCTGGGAAACCCAGCAATGAAGAGCTGAATGCCAAGAAAATTGAGTTGAACAATTTCTGCCTATGAT
 GCAAGCCATTTCCAACAACAAGGACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTGTCTTTGAC
 AAGGAAGGCAATGGCACAGTCATGGGTGCTGAACCTCCGCCATGTTCTAGCCACCCTGGGTGAAAAGATGA
 AAGAGGAAGAAGTGAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTACGAAGCTTT
 TGCAAGCACATCATGTCTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221618 representing NM_079420
 Red=Cloning site Green=Tags(s)

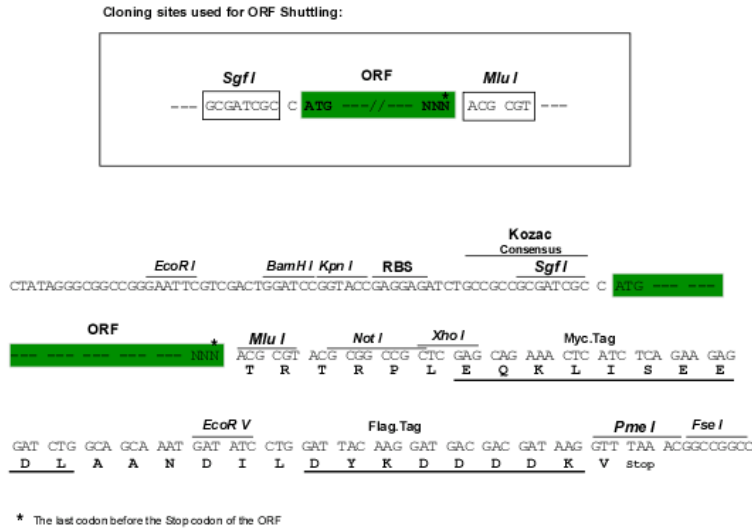
MAPKKDVKKPVAAAAAPAPAPAPAPAPAKPKKEEKIDLSAIIKIEFSKEQQDEFKEAFLFDRTGDSKI
 TLSQVGDVLRALGTNPTNAEVRKVLGNPSNEELNAKKIEFEQFLPMMQAI SNNKDQATYEDFVEGLRVFD
 KEGNGTVMGAELRHVLA TLGKMKEEEVEALMAGQEDSNGCINYEAFVKHIMSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_079420

ORF Size: 582 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_079420.3](#)

RefSeq Size: 1052 bp

RefSeq ORF: 585 bp

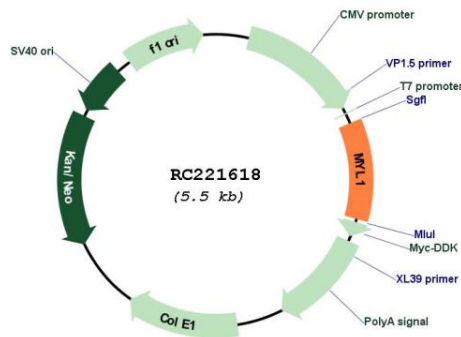
Locus ID: 4632

UniProt ID: [P05976](#)

Cytogenetics: 2q34
 Domains: EFh
 MW: 21.1 kDa

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

Product images:



Circular map for RC221618