

Product datasheet for **RG202750**

myosin light chain 1 (MYL1) (NM_079422) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: myosin light chain 1 (MYL1) (NM_079422) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: myosin light chain 1
Synonyms: MLC1F; MLC3F; MYOFTA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202750 representing NM_079422
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTTCAGTGCTGACCAGATTGCTGAATTC AAGGAGGCATTTCTCTGTTTGACAGAACAGGTGATT
CCAAGATCACCTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACAAATCCCACCAATGCAGAGGT
CAGGAAAGTTCTGGAAACCCAGCAATGAAGAGCTGAATGCCAAGAAAATTGAGTTTGAACAATTTCTG
CCTATGATGCAAGCCATTTCCAACAACAAGGACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTG
TCTTTGACAAGGAAGCAATGGCACAGTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCTGGGTGA
AAAGATGAAAGAGGAAGAAGTGAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTAC
GAAGCTTTTGCAAGCACATCATGTCTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202750 representing NM_079422
Red=Cloning site Green=Tags(s)

MSFSADQIAEFKEAFLLFDRTGDSKITLSQVGDVLRALGTNPTNAEVRKVLGNPSNEELNAKKIEFEQFL
PMMQAIISNNKQATYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMKEEVEALMAGQEDSNGCINY
EAFVKHIMSI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_079422

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_079422.3](#)

RefSeq Size: 853 bp

RefSeq ORF: 453 bp

Locus ID: 4632

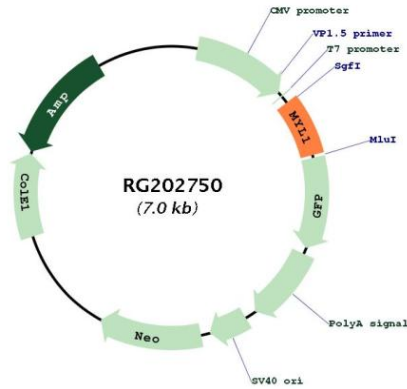
UniProt ID: [P05976](#)

Cytogenetics: 2q34

Domains: EFh

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 RG202750