

Product datasheet for **RG224925**

Myosin (MYL6) (NM_079423) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myosin (MYL6) (NM_079423) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Myosin
Synonyms: ESMLC; LC17; LC17-GI; LC17-NM; LC17A; LC17B; MLC-3; MLC1SM; MLC3NM; MLC3SM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224925 representing NM_079423
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTG
ATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAGGGCCCTGGCCAGAACCCTACCAACGCCGA
GGTGCTCAAGTCTGGGAACCCCAAGAGTGATGAGATGAATGTGAAGGTGCTGGACTTTGAGCACTTT
CTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGAGGATTATGTCGAAGGACTTC
GGGTGTTTGACAAGGAAGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTCACTGGG
TGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGGTTGTATCAAC
TATGAAGAGCTCGTCCGCATGGTCTGAATGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224925 representing NM_079423
Red=Cloning site Green=Tags(s)

MCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHF
LPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTTEEEVEMLVAGHEDSNGCIN
YEELVRMVLNG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_079423

ORF Size: 453 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_079423.4](#)

RefSeq Size: 713 bp

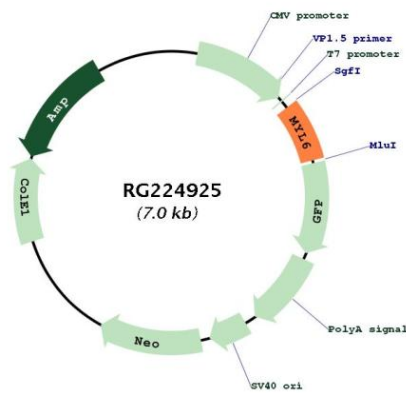
RefSeq ORF: 456 bp

Locus ID: 4637

UniProt ID: [P60660](#)

Cytogenetics: 12q13.2
Domains: EFh
Protein Families: Druggable Genome
Protein Pathways: Vascular smooth muscle contraction
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 that is expressed in smooth muscle and non-muscle tissues. Genomic sequences representing several pseudogenes have been described and two transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224925