

Product datasheet for **RG213170**

Myosin (MYL4) (NM_002476) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myosin (MYL4) (NM_002476) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Myosin
Synonyms: ALC1; AMLC; GT1; PRO1957
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213170 representing NM_002476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCCAAGAAGCCTGAGCCTAAGAAGGAGGCAGCCAAGCCAGCTCCAGCTCCAGCTCCAGCCCCTG
 CACCAGCCCCTGCCCGAGCTCCTGAGGCTCCCAAGGAACCTGCCTTTGACCCCAAGAGTGTAAAGATAGA
 CTTCACTGCCGACCAGATTGAAGAGTTCAAAGAGGCCTTTTCATTGTTTGACCGGACCCCGACTGGAGAG
 ATGAAGATCACCTACGGCCAGTGCAGGGATGACTGCGGGCCCTGGCCAGAACCCTACCAATGCCGAGG
 TGCTGCGTGTGCTGGCAAGCCCAAGCCTGAAGAGATGAATGTCAAGATGCTGGACTTTGAGACGTTCTT
 GCCCATCCTGCAGCACATTTCCCGCAACAAGGAGCAGGGCACCTATGAGGACTTCGTGGAGGGCCTGCGT
 GTCTTTGACAAGGAGAGCAATGGCACGGTCATGGGTGCTGAGCTTCGGCACGTCCTTGCCACCCTGGGAG
 AGAAGATGACTGAGGCTGAAGTGGAGCAGCTGTTAGCTGGCAAGAGGATGCCAATGGCTGCATCAATTA
 TGAAGCCTTTGTCAAGCACATCATGTCAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213170 representing NM_002476
 Red=Cloning site Green=Tags(s)

MAPKKPEPKKEAAKPAPAPAPAPAPAPAPEAPKEPAFDPKSVKIDFTADQIEEFKEAFSLFDRPTGE
 MKITYGQCGDVLRALGQNPTNAEVLRLGPKPEEMNVKMLDFETFLPILQHISRNKEQGTYYEDFVEGLR
 VFDKESNGTVMGAELRHVLATLGEKMTAEVEQLLAGQEDANGCINYEAFVKHIMSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002476

ORF Size: 591 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_002476.2](#), [NP_002467.1](#)

RefSeq Size: 855 bp

RefSeq ORF: 594 bp

Locus ID: 4635

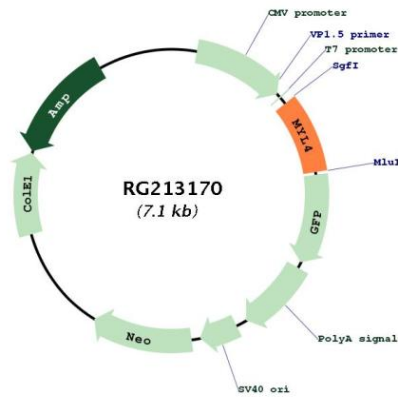
UniProt ID: [P12829](#)

Cytogenetics: 17q21.32

Gene Summary:

Myosin is a hexameric ATPase cellular motor protein. It is composed of two myosin heavy chains, two nonphosphorylatable myosin alkali light chains, and two phosphorylatable myosin regulatory light chains. This gene encodes a myosin alkali light chain that is found in embryonic muscle and adult atria. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213170