

Product datasheet for **RG206569**

Myosin (MYL4) (NM_001002841) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myosin (MYL4) (NM_001002841) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MYL4
Synonyms: ALC1; AMLC; GT1; PRO1957
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG206569 representing NM_001002841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCCAAGAAGCCTGAGCCTAAGAAGGAGGCAGCCAAGCCAGCTCCAGCTCCAGCTCCAGCCCCTG
 CACCAGCCCCTGCCAGCTCCTGAGGCTCCCAAGGAACCTGCCTTTGACCCCAAGAGTGTAAAGATAGA
 CTTCACTGCCGACCAGATTGAAGAGTTCAAAGAGGCCTTTTCATTGTTTGACCGGACCCGACTGGAGAG
 ATGAAGATCACCTACGGCCAGTGCGGGATGACTGCGGGCCCTGGCCAGAACCCTACCAATGCCGAGG
 TGCTGCGTGTGCTGGCAAGCCCAAGCCTGAAGAGATGAATGTCAAGATGCTGGACTTTGAGACGTTCTT
 GCCCATCCTGCAGCACATTTCCCGCAACAAGGAGCAGGGCACCTATGAGGACTTCGTGGAGGGCCTGCGT
 GTCTTTGACAAGGAGAGCAATGGCACGGTCATGGGTGCTGAGCTTCGGCACGTCCTTGCCACCCTGGGAG
 AGAAGATGACTGAGGCTGAAGTGGAGCAGCTGTTAGCTGGCAAGAGGATGCCAATGGCTGCATCAATTA
 TGAAGCCTTTGTCAAGCACATCATGTCAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206569 representing NM_001002841
 Red=Cloning site Green=Tags(s)

MAPKKPEPKKEAAKPAPAPAPAPAPAPAPEAPKEPAFDPKSVKIDFTADQIEEFKEAFSLFDRPTGE
 MKITYGQCGDVLRALQNPNTAEVLRVLGPKPEEMNVKMLDFETFLPILQHISRNKEQTYEDFVEGLR
 VFDKESNGTVMGAELRHVLA TLGEKMTAEVEQLLAGQEDANGCINYEAFVKHIMSG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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_001002841.1](#), [NP_001002841.1](#)

RefSeq Size: 934 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]