

Product datasheet for MR221574

Myh3 (NM_001099635) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myh3 (NM_001099635) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myh3
Synonyms: MyHC-emb; Myhs; Myhs-; Myhs-e; Myhse
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221574 representing NM_001099635
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTAGCGACCCGAGATGGAAGTGTTGGCATAGCTGCACCTTTCCTCCGCAAGTCGGAAAAGGAGA
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Protein Sequence:

>MR221574 representing NM_001099635
 Red=Cloning site Green=Tags(s)

MSSDTEMEVFGIAAPFLRKSEKERIEAQNPFDKTYCFVVDSSKEEYVKGKIKSSQDGKVTVEDSRTL
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 LLQAEVEELRATLEQTERARKLAEQELLSNERVQLLHTQNTSLIHTKKKLETDLTQLQSEVEDACRDAR
 NAEKAKKAITDAAMMAEELKKEQDTS AHLERMKNLEQTVKDLQHRLEAEQLALKGGKKQIQKLETRI
 RELEFELEGEQRNTE SVKGLRKYERRVKELTYQSEEDRKNVLRQLDVKLQVKVKS YKRQAEAEDEQA
 NAHLTKFRKAQHELEEAERADIAESQVNKLRAKTRDFTSSRMVHESEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9049_f06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001099635

ORF Size: 5820 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_001099635.1](#), [NP_001093105.1](#)

RefSeq Size: 5992 bp

RefSeq ORF: 5823 bp

Locus ID: 17883

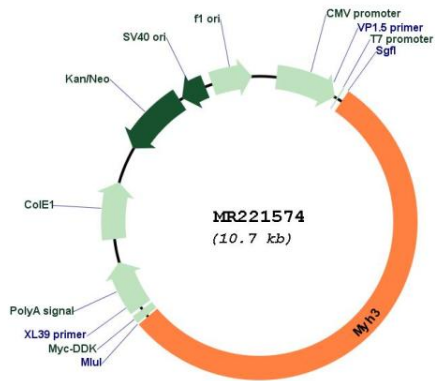
UniProt ID: [P13541](#)

Cytogenetics: 11 40.59 cM

MW: 224.2 kDa

Gene Summary: Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. This gene is a member of the MYH family and encodes a protein with an IQ domain and a myosin head-like domain. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR221574