

## Product datasheet for **MG221574**

### Myh3 (NM\_001099635) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh3 (NM\_001099635) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Myh3  
**Synonyms:** MyHC-emb; Myhs; Myhs-; Myhs-e; Myhse  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221574 representing NM\_001099635  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAGCGACCCGAGATGGAAGTGTTGGCATAGCTGCACCTTTCCTCCGCAAGTCGGAAAAGGAGA  
GGATCGAAGCTCAGAACCAGCCCTTTGATGCCAAAACCTACTGCTTTGTGGTTGACTCAAAGGAAGAATA  
TGTC AAGGGGAAAATTAAGAGTAGCCAGGATGGGAAAGTCACTGTGGAGACAGAAGACAGCAGGACCCTG  
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TGACCCACCTGAACGAGCCCGCTGTGCTGTACAACCTCAAGGACCGATACACGTCCTGGATGATCTACAC  
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CCAAGACCGTGAGGAACGACAACCTCGTCTCGCTTTGGCAAGTTCATCCGCATCCATTTGGCACCCTGG  
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TTACGACCAACCCTTATGACTACCCGTTTATCAGCCAGGGCGAAAATCCTGGTGGCCAGCATCGACGATGC  
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AACCACCACATGTTCTGCTGGAACAGGAGGAATACAAGAAGGAGGGCATCGAGTGGACCTTCATCGACT  
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 CAGAATCGCAAGTCAATAAACTGCGGGCAAGACCCGTGACTTACCTCTAGCCGGATGGTGGTCCATGA  
 AAGCGAGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG221574 representing NM\_001099635  
 Red=Cloning site Green=Tags(s)

MSSDTEMEVFGIAAPFLRKSEKERIEAQNQPFDAKTYCFVVDKSKEEYVKGKIKSSQDGKVTVEDSRTL  
 VVKPEDVYAMNPKFDKIEDMAMLTNPAVLNLDKRYTSWMIYTYSGLCVTVNPKWLPVYNPEVV  
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 AHALQSSRHDCDLLREQYEEEQEGKALQRALSKANSEVAQWRTKYETDAIQRTTEELAAKKLQRLQD  
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 IQMALEEAEEAALHEEAKILRIQLELTQVKSEIDRKIAEKDEEIEQLKRNRYQRTVETMQGALDAEVRSRN  
 EAIRLKKKMEGDLNEIEIQLSHANRQAETIKHLRSVQGLKDTQLHLDDALRGQEDLKEQLAIVERRAN  
 LLQAEVEELRATLEQTERARKLAEQELLDNSNERVQLLHTQNTSLIHTKKKLETDLTQLQSEVEDACRDAR  
 NAEKAKKAITDAAMAEELKKEQDTSAPLERMKNLEQTVKDLQHRLEAEQLALGGKKQIQKLETRI  
 RELEFELEGEQKRNTESVKGLRKYERRVKELTYQSEEDRKNVLRQLVDKLQVKVKSQRQAAEAEDEQA  
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TRTRPLE – GFP Tag – V

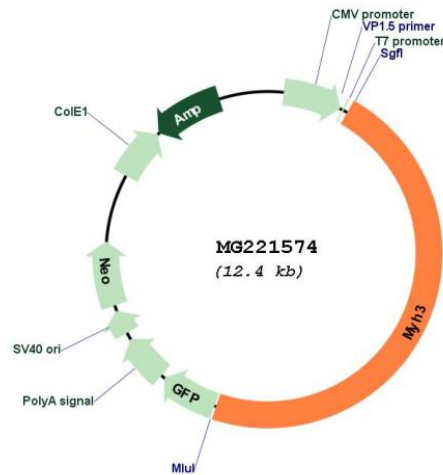
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001099635.1</a></u> , <u><a href="#">NP_001093105.1</a></u>
<b>RefSeq Size:</b>	5992 bp
<b>RefSeq ORF:</b>	5823 bp
<b>Locus ID:</b>	17883
<b>UniProt ID:</b>	<u><a href="#">P13541</a></u>
<b>Cytogenetics:</b>	11 40.59 cM
<b>Gene Summary:</b>	<p>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]</p>