

## Product datasheet for **RR215216**

### Myh6 (NM\_017239) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myh6 (NM\_017239) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Myh6  
**Synonyms:** Myhca  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215216 representing NM\_017239  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGACGGATGCCAGATGGCTGACTTCGGGGCAGCAGCCCCATACCTCCGCAAGTCAGAGAAGGAGCGCC  
TAGAGGCCAGACCCGGCCCTTTGACATCCGCACAGAGTGCTTCGTGCCTGATGACAAGGAGGAGTATGT  
CAAGGCCAAGATCGTGTCCCGGAAGGGGGCAAGGTCCTGCCGAAACTGAAAACGGCAAGACGGTGACT  
GTGAAGGAGGACCAGGTGATGCAGCAGAACCCCTCCGAAATTCGACAAGATCGAGGACATGGCCATGCTGA  
CCTTCCTGCATGAGCCAGCTGTGCTCTACAATCTCAAGGAGCGCTATGCGGCCTGGATGATCTATACCTA  
CTCAGGCCTCTTCTGTGTACCCTCAACCCCTATAAGTGGCTGCCAGTGTACAATGCGGAAGTGGTAGCT  
GCCTACCGGGCAAGAAGAGGAGCGAGGCTCCACCCACATCTTCTCCATCTCTGACAACGCCTATCAGT  
ACATGCTGACAGATCGGGAGAACCAGTCCATCCTCATCACTGGAGAATCCGGAGCGGGGAAGACTGTCAA  
CACGAAGCGTGCATCCAGTACTTTGCTAGCATTGCAGCCATAGGGGACCGTAGCAAGAAGGACAATCCT  
AATGCAACAAGGGCACCCCTGGAGGACCAGATTATCCAGGTAACCCCTGCTCTGGAGCCCTTTGGCAACG  
CCAAGACTGTCCGGAATGACAACCTCCCGCTTTGGGAAGTTCATCAGGATCCACTTTGGAGCCACAGG  
AAAGCTGGCTTCTGCAGACATAGAGACCTACCTTCTGGAGAAGTCCCGGTGATCTTCAGCTAAAGGCT  
GAGAGGAACTACCATATCTTCTACCAGATCCTGTCCAACAAGAAGCCGGAGCTGTGGACATGCTGCTGG  
TTACCAACAACCCGTACGACTATGCCTTCGTCTCTCAGGGAGAGGTGTCTGTGGCCTCCATTGATGACTC  
CGAGGAGCTTTTGGCCACTGATAGCGCCTTTGATGTGCTGGGCTTACAGCAGAGGAGAAGGCCGGTGTCT  
TACAAGCTGACAGGCGCCATCATGCACTATGGGAACATGAAGTTCAAGCAGAAGCAGCGGGAGGAGCAGG  
CGGAGCCAGACGGCACAGAAGATGCTGACAAATCTGCCTACCTCATGGGGCTGAACTCAGCCGACCTGCT  
CAAGGGTCTGTGCACCCTCGGGTGAAGGTGGTAACGAGTATGTCACCAAGGGCAGAGTGTACACGAG  
GTGTAATTTCCATCGGGGCACTGGCCAAGTCAGTGTACGAGAAGATGTTCAACTGGATGGTGACACGCA  
TCAACGCAACCCCTGGAGACCAAGCAGCCAGCCAGTACTTCATAGGTGTCTGGACATCGCCGGCTTTGA  
GATCTTTGATTTCAACAGCTTTGAGCAGCTGTGCATCACTTCACCAATGAGAAGCTGCAGCAGTCTTTC  
AACCACCACATGTTCTGCTGGAGCAGGAGGAGTACAAGAAGGAAGGCATCGAGTGGGAGTTCATTGACT



[View online »](#)

TCGGCATGGACCTGCAGGCTGCATCGACCTCATCGAGAAGCCATGGGCATCATGTCCATCCTGGAGGA  
GGAGTGCATGTTCCCAAGGCCACAGACATGACCTTCAAGGCCAAGCTGTACGACAACCCTGGGCAAG  
TCCAACAACCTCCAGAAGCCTCGCAATGTCAAGGGGAAGCAGGAAGCCACTTCTCTCTGGTCCACTATG  
CTGGCACCGTGGACTACAACATCTTGGGCTGGCTGGAGAAGAACAAGGACCCTCTCAACGAGACGGTGGT  
GGGGCTGTACCAGAAGTCTCCCTCAAACCTCATGGCCACACTCTTCTCCACCTACGCTTCTGCTGATACC  
GGTGACAGTGGGAAAGGCAAAGGAGGCAAGAAGAAAGGCTCATCCTTCCAGACAGTGTCTGCTCTCCACC  
GGGAAAATCTGAACAAGCTGATGACAAACCTGAGGACCACCCACTCTTGTGCGCTGCATCATCCC  
CAATGAGCGGAAGGCTCCAGGGGTGATGGACAACCCCTGGTCATGCACCAGCTGCGATGCAACGGAGTG  
CTGGAGGGTATCCGCATCTGTAGGAAGGCTTCCCAACCGCATTCTTTATGGGGACTTCCGGCAGAGGT  
ATCGAATCCTGAACCCAGCAGCCATCCCTGAGGGGCAATTATTGATAGCAGGAAAGGGGCTGAGAAGCT  
GCTGGGCTCCCTGGACATTGACCACAACCAGTACAAGTTTGGTACACCAAGGTGTTCTTCAAGCGGGG  
CTGCTGGGGCTGCTGGAGGAGATGCGAGATGAGAGGCTGAGCCGCATCATACCAGAATCCAGGCTCAAG  
CCCAGGCCAGCTCATGCGCATTGAGTTAAGAAGATGGTGGAGCGCAGGGACGCCCTGCTGTTATCCA  
GTGGAACATCCGCGCCTTATGGGGTCAAGAATTGGCCGTGGATGAAGCTCTACTTCAAGATCAAGCCG  
CTGCTGAAGAGCGCAGAGACAGAGAAGGAGATGGCCAACATGAAGGAGGAGTTCCGGCGAGTCAAAGATG  
CACTAGAGAAGTCTGAGGCTCGCCGCAAGGAGCTGGAGGAGAAGATGGTGTCCCTGCTGCAGGAGAAGAA  
TGACCTGCAGCTCCAAGTGCAGGCGGAACAAGACAACCTGGCAGATGCCAGGAGCGCTGCGACCAGCTG  
ATCAAGAACAAGATCCAGCTGGAGGCCAAGGTGAAGGAGATGACCAGAGGCTGGAGGACGAGGAGGAGA  
TGAACGCCGAGCTCACGGCCAAGAAGCGCAAGCTGGAAGACGAGTGTCTCAGAGCTCAAGAAAAGATATCGA  
TGACCTGGAGCTGACCTGGCCAAGGTGGAGAAGGAAAAGCACGCAACAGAGAACAAGGTTAAAAACCTG  
ACAGAGGAGATGGCCGGGCTGGACGAGATCATTGCCAAGCTGACCAAGGAGAAGAAAGCTTCAAGAGG  
CCCACCAGCAAGCCCTAGATGACCTTCAAGCTGAGGAAGACAAGGTCAACACACTGATCAAGTCTAAAGT  
CAAGCTGGAGCAGCAGGTGGATGATCTGGAGGGATCCCTGGAGCAGGAGAAGAAGTGGCGATGGACCTG  
GAGCGAGCAAAAGCGGAAGCTGGAGGGTACCTGAAGCTGACCCAGGAGAGCATCATGGACCTGGAAACG  
ACAAGTTCAGCTGGAGGAAAAGCTCAAGAAGAAAGATTTGACATCAGTCAGCAGAACAGTAAAAATAGA  
GGATGAGCAGGCCCTGGCCCTTCACTGCAGAAGAACTGAAGGAAAACCAGGCACGCATCGAGGAGCTG  
GAGGAGGAGCTAGAGGCCGAGCGCACAGCCGGGCAAGGTGGAGAAGCTGCGCTCAGACCTGACCCGGG  
AGCTGGAGGAGATCAGTGAAGGCTAGAGGAAGCCGGTGGGGCCACATCTGTGCAGATAGAGATGAACAA  
GAAGCGCAGGCGGAGTCCAGAAGATGCGGCGGGACCTGGAGGAGGCCACGCTGCAGCATGAGGCCACA  
GCCGCGGCCCTGCGCAAGAAGCACGCAGACAGCTGGCCGAGCTGGCGGAGCAGATAGACAATCTACAGC  
GGGTGAAGCAGAAGCTGGAGAAAGAGAAGAGCGAGTTCAAACCTGGAGCTGGATGACGTCACCTCCAACAT  
GGAGCAGATCATCAAGGCCAAGGCAACCTGGAGAAAGTGTCCCGGACACTGGAGGACCAGGCCAATGAA  
TACCGGGTGAAGTTGGAAGAAGCCAGCGCTCCCTCAATGACTTCACCACACAGCGAGCCAAAGCTGCAGA  
CAGAGAACGGCGAGCTGGCTAGGCAACTGGAAGAAAAGGAGGCACTGATTTCCAGCTGACCCGGGGCAA  
GCTCTCTATACCCAGCAGATGGAGGACCTCAAGAGGCAGCTGGAGGAGGAAGGCCAAGGCCAAGAATGCC  
TTGGCCCACGCACTGCAGTCAGCCCGCATGACTGCGACCTGCTGCGGGAACAGTACGAAGAAGAAATGG  
AGGCCAAGGCCGAGCTGCAGCGTGTCTGTCCAAGGCCAACTCAGAGGTGGCCAGTGGAGGACCAAGTA  
TGAGACGGACGCCATACAGAGGACGGAGGAGCTGGAGGAAGCCAAGAAGAAGCTGGCTCAGAGGCTTCA  
GATGCTGAGGAGGCAGTGGAGGCCGTCAACGCCAAGTGTCTCTTGGAGAAGACCAAGCACAGGCTGC  
AGAACGAGATCGAGGACCTGATGGTGGATGTGGAGCGCTCAATGCGGCCGCGCAGCCCTGGACAAAAA  
GCAGAGGAACTTCGACAAGATCCTGGCTGAGTGAAGCAGAAGTATGAGGAGTCCAGTCAGAGCTGGAG  
TCTTCCAGAAGGAGGCGCGCTCCCTGAGCACAGAGCTTTCAAGCTCAAGAATGCCTATGAGGAGTCTC  
TGGAGCACCTGGAGACCTTCAAGCGGGAGAACAAGAACCTCCAGGAGGAGATCTCAGACCTGACTGAACA  
GCTGGGAGAAGGGGTAAAAATGTGCACGAGCTGGAGAAGATCCGCAAACAGCTGGAGGTGGAGAAGCTG  
GAACTGCAGTCAGCCCTGGAGGAGGCTGAGGCCTCCCTGGAGCATGAGGAGGGCAAGATCCTCCGAGCCC  
AGCTGGAGTTCAACCAGATCAAGGCAGAGATCGAAAGGAAGCTGGCAGAGAAGGACGAGGAGATGGAGCA  
GGCCAAGCGCAACCACCTGCGGGTGGTGGACTCCCTGCAGACCTCCCTGGATGCCGAGACGCGCAGCCG  
AACGAGGCCCTGCGGGTGAAGAAGAAGATGGAGGGCGACCTCAATGAGATGGAGATCCAGCTCAGTCAGG  
CCAATAGAATAGCCTCAGAGGCCAGAAGCACTTGAAGAACGCCCAAGCCCACTTGAAGGACACCCAGCT  
CCAGCTGGATGACGCAGTCCGTGCCAATGACGACCTGAAGGAGAACATCGCCATCGTGGAGCGGCGCAAC  
ACCCTGCTGCAGGCGGAGCTGGAGGAGCTGCGGGCCGTGGTGGAGCAGACAGAGCGGTCTCGGAAGCTGG  
CAGAGCAGGAGCTGATCGAGACCAGCGAGCGGGTGCAGCTGCTGCACTCCAGAACACCAGCCTCATCAA

CCAGAAGAAGAAGATGGATGCAGACCTCTCCAGCTCCAGACAGAGGTGGAGGAGCGGTGCAGGAGTGT  
 AGGAACGCAGAGGAGAAGGCCAAGAAGGCCATCACAGATGCCGCCATGATGGCCGAGGAGCTGAAGAAGG  
 AGCAGGACACCAGCGCCACCTGGAGCGCATGAAGAAGAACATGGAGCAGACCATCAAGGACCTGCAGCA  
 CCGGCTGGACGAGGCAGAGCAGATCGCCCTCAAGGGTGGCAAGAAGCAGCTGCAGAAGCTGGAGGCCCGG  
 GTCCGGGAGCTGGAGAATGAGCTGGAGGCTGAGCAGAAGCGCAATGCGGAGTCCGTGAAGGGCATGAGGA  
 AGAGCGAGCGGCATCAAGGAGCTCACCTACCAGACAGAGGAAGACAAGAAGAAGCTTGGTCCGGCTGCA  
 GGACCTGGTGGACAAGCTGCAGTTGAAGGTGAAGGCCTACAAGCGCCAGGCTGAAGAGCGGAGGAACAG  
 GCCAACACCAACCTGTCCAAGTTCGCAAGGTGACGACGAGCTGGATGAGGCAGAGGAGGGCGGACA  
 TTGCCGAGTCCCAGGTCAACAAGCTGCGGGCCAAGAGCCGTGACATTGGCGCCAAGCAGAAAATGCACGA  
 TGAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR215216 representing NM\_017239  
 Red=Cloning site Green=Tags(s)

MTDAQMADFGAAAPYLRKSEKERLEAQRPFDIRTECFVDDKKEEYVAKIVSREGGKVT AETENKTVT  
 VKEDQVMQNPFPDKIEDMAMLTFLHEPAVLNPKERYAAWMIYTYSGLCVTVNPKWLPVYNAEVVA  
 AYRGGKRSEAPPHIFSIDNAYQYMLTDRENQSILITGESGAGKTVNTRKVIQYFASIAAIGDRSKKNDP  
 NANKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIIRIHFGATGKLASADIETYLLEKSRVIFQLKA  
 ERNYHIFYQILSNKKPELLDMLLVNPNPYDYAFVSQGEVSVASIDDSEELLATDSAFDVLGFTAEEKAGV  
 YKLTGAIMHYGNMKFKQKQREEQAEPEGTEADK SAYLMGLNSADLLKGLCHPRVKVGNVYVTKGQSVQQ  
 VYYSIGALAKSVYEKMFNWMVTRINATLETKPRQYF IGVLDIAGFEIFDFNSFEQLCINFNTNEKQQFF  
 NHHMFVLEQEEYKKEGIEWEFIDFGMDLQACIDLIEKPMGIMSILEEECMFPKATDMTFKAKLYDNHLGK  
 SNNFQKPRNVKQKQEAHFSLVHYAGTVDYNILGWLEKNKDPNETVVGLYQKSSLKLMATLFSTYASADT  
 GDGSGKGGKGGKSSFTVSALHRENKLMNTLRTTHPHFVRCIIPNERKAPGVMDNPLVMHQLRCNGV  
 LEGIRICRKGFPNRILYGDFRQRYRILNPAIPEGQFIDSRKGAEKLLGSLDIDHNQYKFGHTKVFVKAG  
 LLGLLEEMRDERLSRIITRIQAQARGQLMRIEFKKMVERRDALLVIQWNIRAFMGVKNWPWMLYFKIKP  
 LLKSAETEKEMANMKEEFGRVKDALEKSEARRKELEEKMSLLQEKNLQLQVQAEQDNLADAEEERCDQL  
 IKNKIQLEAKVKEMTERLEDEEEMNAELTAKKRKLEDECESELKKDIDDLLETLAKVEKEKHATENKVKNL  
 TEEMAGLDEIIAKLTKEKKALQEAHQALDDLQAEEDKVNTL IKSVKLEQQVDDLEGSLEQEKVVRMDL  
 ERAKRKLEGLKLTQESIMDLENDKLQLEEKLKKKEFDISQNSKIEDEQALALQLQKKLKENQARIEEL  
 EEELEAERTARAKVEKLRSDLTRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEAT  
 AAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKVSRTLEDQANE  
 YRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEKEALISQLTRGKLSYTOQMEDLKRQLEEEGKAKNA  
 LAHALQSARHDCDLLREQYEEEMEAKAELQRVLSKANSEVAQWRTKYETDAIQRTELEEAKKLAQRLQ  
 DAEAEAVEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELE  
 SSQKEARSLSTELFKLKNAYEESLEHLETFKRENKLNQEEISDLTEQLGEGGKNVHELEKIRKQLEVEKL  
 ELQSALEEAESLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAKRNHLRVVDSLQTSLDAETRSR  
 NEALRVKKMEGDLNEMEIQLSQANRIASEAQHLKNAQHLKDTQLQLDDAVRANDDLKENIAIVERRN  
 TLLQAELEELRAYVEQTERSRLAEQELIETSERVQLLHSQNTSLINQKKKMDADLSQLQTEVEEAVQEC  
 RNAEEKAKKAITDAAMMAEELKKEQDTS AHLERMKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEAR  
 VRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNL VRLQDLVDKQLKVKAYKRQAEAEAEQ  
 ANTNLKFRKVVQHELDEAEERADIAESQVNKLRAKSRDIGAKQKMHDEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

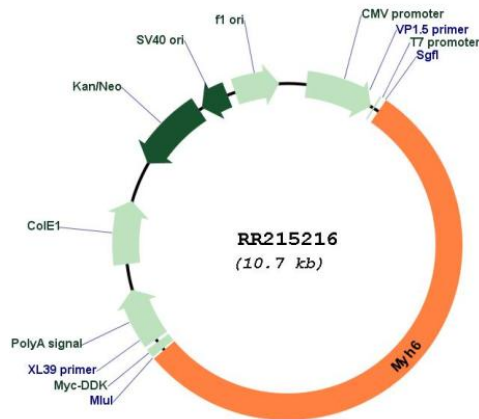
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN:

NM\_017239

ORF Size:

5817 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>	<a href="#">NM_017239.2</a> , <a href="#">NP_058935.2</a>
<b>RefSeq Size:</b>	5925 bp
<b>RefSeq ORF:</b>	5820 bp
<b>Locus ID:</b>	29556
<b>Cytogenetics:</b>	15p13
<b>MW:</b>	223.5 kDa
<b>Gene Summary:</b>	heavy chain of myosin; involved in muscle contraction [RGD, Feb 2006]