

## Product datasheet for **MG226781**

### Myh6 (NM\_010856) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myh6 (NM_010856) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myh6
Synonyms:	A830009F23Rik; AA517445; alpha-MHC; Myhc-a; Myhca
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226781 representing NM_010856 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGACGCCAGATGGCTGACTTCGGGGCAGCAGCCAGTACCTCCGAAAGTCAGAGAAGGAACGCC  
TAGAGGCCAGACCCGGCCCTTTGACATCCGCACGGAGTGCTTCGTGCCTGATGACAAGGAGGAGTATGT  
TAAGGCCAAGGTCGTGTCCCGGAAGGGGGCAAAGTCACTGCGGAAACTGAAAACGGAAAGACGGTGACC  
ATAAAGGAGGACCAGGTGATGCAGCAGAACCCACCAAGTTCGACAAGATCGAGGACATGGCCATGCTGA  
CCTTCCTGCACGAGCCGGCTGTGCTGTACAACCTCAAGGAGCGCTACGCGGCCTGGATGATCTATACCTA  
CTCAGGCCTCTTCTGCGTCACCGTCAACCCCTATAAGTGGCTGCCTGTGTACAATGCGGAAGTGGTGCC  
GCCTACCGGGCAAGAAGAGGAGCGAGGCCCTCCTCACATCTTCTCCATCTCTGACAACGCCTATCAGT  
ACATGCTGACAGATCGGGAGAATCAGTCCATCCTCATACCCGGAGAATCCGGAGCGGGGAAGACTGTGAA  
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TCACCAACAACCCATACGACTACGCTTCTGCTCTCAGGGAGAGGTGTCCGTGGCCTCCATTGATGACTC  
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AACCACCACATGTTCTGCTGGAGCAGGAGGAGTACAAGAAGGAGGGCATTGAGTGGGAGTTTATCGACC  
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CAGAGCAGGAGCTGATTGAGACCAGCGAGCGGGTGCAGCTGCTGCACTCGCAGAACCAGCCTCATCAA  
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 GCCAACACCTACCTGTCCAAGTTCGCAAGGTGCAGCACGAGCTGGATGAGGCGGAGGAGGGCGGACA  
 TCGCCGAGTCCCAGGTCAACAAGCTGCGGGCAAGAGCCGGGACATTGGTCCAAGAAGATGCACGACGA  
 GGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG226781 representing NM\_010856  
 Red=Cloning site Green=Tags(s)

MTDAQMADFGAAQYLRKSEKERLEAQRPFDIRTECFVDDKKEEYVAKVVSREGGKVT AETENKTVT  
 IKEDQVMQNPFPDKIEDMAMLTFLHEPAVLNLYKERYAAWMIYTYSGLFCVTVNPKWLPVYNAEVVA  
 AYRGGKRSEAPPHIFSIDNAYQYMLTDRENQSILITGESGAGKTVNTRKVIQYFASIAAIGDRSKKENP  
 NANKGTLEDQIIQANPALEAFGNAKTVRNDNSSRFGKFIIRIHFGATGKLASADIETYLPEKSRVIFQLKA  
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 VYYSIGALAKSVYEKMFNWMVTRINATLETKQPRQYFIVGLDIAGFEIFDFNSFEQLCINFNTEKQQFF  
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 GDGSGKGGKGGKSSFTVSALHRENKLMNTLKTTHPHFVRCIIPNERKAPGVMNDPLVMHQLRCNGV  
 LEGIRICRKGFPNRILYGDFRQRYRILNPAIPEGQFIDSRKGAELKLGSLDIDHNQYKFGHTKVFVKAG  
 LLGLLEEMRDERLSRIITRIQAQARGQLMRIEFKKIVERRDALLVIQWNIRAFMGVKNWPWMLYFKIKP  
 LLLKSAETEKEMANMKKEEFGRVKDALEKSEARRKELEEKMSVLLQEKNLQLQVQAEQDNLNDAEERCDQL  
 IKNKIQLEAKVKEMTERLEDEEEMNAELTAKKRKLEDECESELKDDLELTLAKVEKEKHATENKVKNL  
 TEEMAGLDEIIAKLTKEKKALQEAHQALDDLQAEEDKVNTLTKSKVKLEQQVDDLEGSLEQEKVVRMDL  
 ERAKRKLEGLDLTQESIMDLENDKLQLEEKLKKKEFDISQNSKIEDEQALALQLQKKLKENQARIEEL  
 EEELEAERTARAKVEKLRSDL SRELEEISERLEEAGGATSVQIEMNKKREAEFQKMRRDLEEATLQHEAT  
 AAALRKKHADSVAELGEQIDNLQRVKQKLEKEKSEFKLELDDVTSNMEQIIKAKANLEKVSRTLEDQANE  
 YRVKLEEAQRSLNDFTTQRAKLQTENGELARQLEEKEALISQLTRGKLSYTOQMEDLKRQLEEEGKAKNA  
 LAHALQSSRHDCDLLREQYEEEMEAKAELQRVLSKANSEVAQWRTKYETDAIQRTELEEAKKLAQRLQ  
 DAEAEVAEAVNAKCSSLEKTKHRLQNEIEDLMVDVERSNAAAAALDKKQRNFDKILAEWKQKYEESQSELE  
 SSQKEARSLSTELFKLKNAYEESLEHLETFKRENKLNQEEISDLTEQLGEGGKNVHELEKIRKQLEVEKL  
 ELQSALEAEASLEHEEGKILRAQLEFNQIKAEIERKLAEKDEEMEQAQRNHLRMVDSLQTSLDAETRSR  
 NEALRVKKMEGDLNEMEIQLSQANRIASEAQHLKNSQAHLKDTQLQLDDAVHANDDLKENIAIVERRN  
 NLLQAELEELRAYVEQTERSRLAEQELIETSERVQLLHSQNTSLINQKKMESDLTQLQTEVEEAVQEC  
 RNAEEKAKKAITDAAMMAEELKKEQDTS AHLERMKNMEQTIKDLQHRLDEAEQIALKGGKKQLQKLEAR  
 VRELENELEAEQKRNAESVKGMRKSERRIKELTYQTEEDKKNLMRLQDLVDKQLQKVKAYKRQAEAEAEQ  
 ANTYLSKFRKVVQHELDEAEERADIAESQVNKLRAKSRDIGAKKMHDEE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<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_010856.4</a></u> , <u><a href="#">NP_034986.1</a></u>
<b>RefSeq Size:</b>	6015 bp
<b>RefSeq ORF:</b>	5817 bp
<b>Locus ID:</b>	17888
<b>UniProt ID:</b>	<u><a href="#">Q02566</a></u>
<b>Cytogenetics:</b>	14 28.01 cM
<b>Gene Summary:</b>	Muscle contraction.[UniProtKB/Swiss-Prot Function]