

Product datasheet for **MG212037**

Myom1 (BC060378) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myom1 (BC060378) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myom1
Synonyms:	D430047A17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212037 representing BC060378 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCTGCCCTTTTATCAGCGGTCCCATCAGCACTATGATCTCAGTTACCGGAACAAGGACCTTCGCA
CGACCATGAGCCACTACCAACAGGAGAAGAAGCGCTCTGCTGTCTACACCCATGGCTCCACTGCCTACAG
CAGCCGCTCCTTGGCAGCAGCGCCAGGAGTCAGAGGCCTTCAGTCAAGCATCAGCCACCTCTTACCAG
CAGCAGGCCTCACAGACCTACAGTCTTGGAGCATCATCATCCCGGCATTCTCAAGGGTCTGAAGTCA
GCCGGAAGACAGCCTCTGCATATGATTACGGCTATTCCACGGACTCACAGATTCCAGTCTGCTATTAGA
AGATTATTCATCCAAGTTGAGCCCCAAACAAAGAGAGCCAAGCGGAGCCTTCTGTCTGGAGAGGAGACT
GGAAGCTTGCCAGGCAACTACCTGGTGCCTATCTACTCTGGACGCAAGTGCACATCAGTGGGATCAGAG
ACTCGGAAGAAGAAAGAAATTAAGAGGCTGCTGCTTATATCGCTCAGAAGACTCTCCTTGGCAGTGAGGA
AGCTATTGCAGCTTCCAAACAGAGCACAGCCTCCAAACAGTCCGCAACCTCCAAACGGACCACGTCACCC
CTTCAACGAGAGGAAACGTTTGAAAAGAAGTCGAGGAACATTGCAATTCGAGAAAAGCGGAAGAGCTGT
CACTGAAGAAAACATTAGAAGAGACCCAAACATATCACGGCAAGCTAAATGAAGACCATCTCCTTCATGC
TCCTGAGTTTATCATTAGCCTCGTTCTCACACAGTTTGGGAGAAGGAGAATGTGAAGTTGCACTGCTCT
GTAGCAGGGTGGCCAGAGCCTCGGCTCAGTGGTATAAGAACCAGGTGCCTATAAATGTCCATGCAAAC
CGGGAAGTACATCATTGAAAGCCGATACGGAATGCATACTCTTGAGATCAGCAAATGTGACTTTGAAGA
CACAGCTCAGTACCGGGCCTCGGCGATGAATGTTCAAGGAGAGCTGTGAGCATATGCCTCAGTCGTAGTA
AAGAGATATAAGGGAGAAGTGGATGAGTCTCTCTCCGTGGTGGGGTTCCATGCCTCTCAGCTTTGCTG
TGACCCCTTACGGTTATGCATCCAAGTTTGAGATCCACTTCGATGACAAGTTTGATGTGCTCTTGGGAG
AGAAGGAGAGACCATGAGTCTGGGCTGTGCGTAGTCATCACTCCTGAGATAAAGCACTTCAGCCCGAG
GTCCAGTGGTATAGAAATGGAGCACCTGTTTCTCCATCAAATGGGTGCAGCCACACTGGAGTGGAGACC
GGGCGACACTTACGTTCTCTCACCTCAACAAAGAAGATGAAGGTCTCTACACGATCCGAGTGCGAATGGG
AGAGTATTACGAACAGTACAGTGCTTACGTCTTGTTCGAGATGCTGATGCAGAGATCGAAGGAGCCCCA



[View online »](#)

GCTGCACCCCTGGATGTGGTGTCTTTGGATGCTAACAAGGATTACATCATCATCTCTTGAAGCAGCCAG
 CTGTGGATGGAGGGAGCCCTATCTGGGATACTTTATCGATAAGTGTGAGGTGGGCACAGATACCTGGTC
 TCAGTGAATGACACACCTGTGAAGTTTCTCGGTTTCCAGTCACTGGCTTGATAGAAGGCCGTTCTCTAC
 ATATTCAGAGTCCGAGCTGTGAATAAACTGGAATAGGCTGCCATCCCAGTTTCTGAGCCTGTGGCGG
 CTTTGGATCCAGCTGAGAAAGCTAGACTAAAAAGTCATCTTCAGCACCTGGACTGGACAGATCATTGT
 CACGGAAGAAGAGCCTACAGAGGGTGTCTTCTGGCCCCCACAGACCTCTGTGACCGAGGCCACC
 CGGAGCTACGTAGTGTGAGCTGGAACCCCTGGGCAGCGAGGCCATGAGGGCATTATGATTTTGTAG
 AAAAGTGTGATGTGGGAGCAGAAAACCTGGCAGCGGGTCAACACAGAACTCCCGGTGAAGTCTCCTCGCTT
 TGCTCTGTTTGACCTGGTGGAGGGAAGTCTTACCGCTTCCGTGTCCGCTGCTCAAAATCAGCAGGAGTT
 GGTGAGCCCTCAGAAACGACTGAAGTGACCGTCGTAGGGGACAAACTTGATATCCCAAAGGCCCTGGCA
 AAATCATCCCAAGTAGAAATACAGATACCTCAGTGGTGGTATCTTGGGAGGAGTCCAGAGACGCCAAGGA
 ACTGGTTGGGTACTACATCGAGGCCAGTGTCTTGGCTCTGGCAAGTGGGAACCTGCAATAACAACCCG
 GTGAAGGGCTCAGATTTACTTGTCTGACTGACGACTGCTCAGAGCTATATTTCCGGGTGAGAGCAG
 TGAATGCAGCTGGACTTAGCGAATATTCACAGGATTTCGGAAGCTATTGAAGTCAAAGCTGCTATCGCCGT
 GCCATCTGCGCCCTATGACATCACTTGTCTTGAAGTTTTCGGGACTCCATGGTTCTTGGATGGAAGCAG
 CCAGATACGACCGGAGGGGACAGAGATTACAGGCTATTATGTGAATATCTGTGAGGTGGTTGGTGAAGTAC
 CAGGAAAATGGAGGGAAGCTAACATCAAGGCCGTGAGCGATGCAGCGTACAAGATTAGCAACTTGAAGGA
 AAACACACTGTACCAGTTCCAAGTGTGACGAATGAACATTGCAGGGCTGGGAGCGCCCTCCACGGTGAGC
 GAGTGTCTCAAGTGTGAAGAGTGGACATTGCTGTTCCAGGACCACACAGCGTGAAGCTCAGTGAAG
 TCAGGAAGAACTCCCTGGTTCTCCAGTGAAGCCCTCAGTCTACTCAGGCCGACTCCAGTACCGGGTTA
 CTTTGTGGACCTGAAGGAAGCCAGTGCCAAAGATGACCAATGGCAGGACTTAATGAGGCAGCCATTGTG
 AACAAGTACCTGAGGGTGCAAGGCCCTCAAAGAGGGTACCAGCTACGTGTTCCGTGTACGTGCTGTCAACC
 AGGCAGCGCTTGGAAAGCCTTCAGACCTTGTGGACCTGTTGTGGCTGAAACACGTCCAGGCACCAAAGA
 GGTTGTGGTGAAGTGTGGATGATGACGGAGTCATTTCTTGAACCTTGAATGTGATCAGATGACTCCCAAG
 TCAGAATTCGTCTGGTCCAAAGATTATGTACCTACTGAAGACTCTCCACGATTAGAAGTCGAAAACAAAG
 GCGATAAGACAAAAATGACCTTTAAAGACCTCGGGACAGATGATTTGGGCACCTATTCTTGTGATGTGAC
 AGACACGGATGGGATAGCGTCAAGCTACCTGATAGACGAGGAGGAAATGAAACGTCTGCTTGGCCTCAGC
 CAGGAGCACAAGTTCCCGACTGTCCCACTAAGTCTGAGTTGGCAGTTGAAATTTTGAGAAAGGTGAGG
 TCCGGTTTTGGATGCAGGCTGAGAAGCTGTCTAGCAATGCCAAAGTCAGTACATATTTAACGAGAAGGA
 AATTTTCGAGGGCCGAAATACAAGATGCACATAGACCGAAACACGGGCATCATTGAAATGTTTCATGGAG
 AAGCTACAGGACGAGGATGAAGGGACGTACACATTCCAAATCAAGATGGAAGCAACTGGCCATTTCGA
 CTCTTGTCTCATTGGAGACGTTTATAAGAAGCTACAGAAAGAAGCTGAATTCAGCGACAAGAATGGAT
 CAGGAAGCAAGGCCACATTTCCGTGAGTATTTGAGCTGGGAAGTGAAGTGGTGAATGTAACGTGCTGTTG
 AAATGCAAGGTGGCAAATATTAAGAAAGAGACTCACATTGTATGGTACAAAGATGAACGGGAGATCTCCG
 TGGACGAGAAACATGACTTTAAGGATGGCATTGTACCTGCTCATCACAGATTTTCCAAGAAAGACGC
 TGGATTTTATGAAGTTATCCTGAAAGATGACCGAGGAAAGATAAGAGCAGATTGAAGCTCGTGGATGAA
 GCCTTCCAAGACTTGATGACTGAAGTATGCAAGAAGATAGCGTTGTCTGCCACAGACCTGAAATCCAGA
 GCACAGCGGAGGGCATTTCGGCTATACTCTTGTCTGTTATTACCTGGATGACTTGAAAGTTAACTGGTC
 CCACAATGGGACGGGATTAAGTACACAGACAGAGTCAAGAGTGGCGTGAAGTGGGAGCAGATCTGGCTG
 CAGATCAACGAGCCCACTCCGAATGATAAAGGGAATACGTGATGGAGCTTTTGACGGCAAGACTGGAC
 ACCAGAAGACGGTGGATCTCTCTGGACAAGCATTGATGAGGCCTTTGCTGAATTCAGAGGTTAAACAA
 AGCTGCCATTGCTGAAAAAATCGGGCCCGGTGTTAGGTGGTCTCCCTGATGTTGTCAACATTCAAGAG
 GGCAAGGCACTCAATCTCACTTGCAATGTGTGGGGTGACCCGCCCTGAGGTGCTCTGGCTGAAAAACG
 AGAAGCCACTGACCTCTGACGACCACTGCAGCCTCAAGTTTGAGGCCGGGAAACCGCTTCTTCAACCAT
 CTCAGGCGTGAGCACGGCAGACTCCGGCAAGTACGGGCTGGTGGTGAAGAACAAATATGGCTCGGAGACC
 AGCGACTTCACCGTTAGTGTGTTTCATCCAGAGGAGGAGTTGAGGAAGGGAGCAATGGAGCCTCCAAGG
 GCAACCAGAAGTCCAAG

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

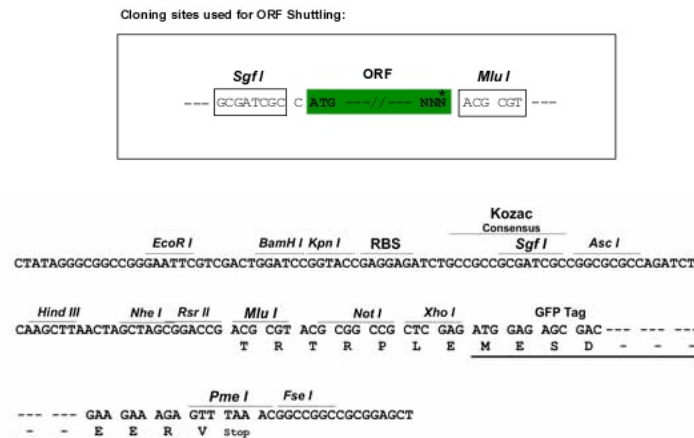
Protein Sequence: >MG212037 representing BC060378
Red=Cloning site Green=Tags(s)

MSLPFYQRSHQHYDL SYRNKDLRTTMSHYQQEKKRSVYTHGSTAYSSRSLAARRQESEAFSQASATSYQ
QQASQTYSLGASSSRHSQSGSEVSRKTASAYDYGSHGLTDSLLLEDYSSKLSPTKRAKRSLLSGET
GSLPGNYLVPIYSGRQVHISGIRDSEERIKEAAAYIAQKTLASEEIAASKQSTASKQSATSKRTTST
LQREETFEKKSRIAIREKAEELSLKKTLEETQTYHGKLNEDHLLHAPEFIKPRSHTVWEKENVKLHCS
VAGWPEPRLTWYKNQVPIINVHANPGKYIIESRYGMHTLEISKCDFETAQYRASAMNVQGELSAYASVVV
KRYKGELDESLLRGGVSMPLSFAVTPYGYASKFEIHFDKDFDVSFGREGETMSLGCRVVITPEIKHFQPE
VQWYRNGAPVSPSKWVQPHWSGDRATLTFSHLNKEDEGLYTIRVRMGEYYEQYSAYVFRDADAEIEGAP
AAPLDVVS LDANKDYIIISWKQPAVDGGSPILGYFIDKCEVGTDTWSQCNDTPVKFARFPVTGLIEGRSY
IFRVRVNKTGIGLPSRVSEPAALDPAEKARLKSHPSAPWTGQIIIVTEEEPTGVI PGPTDLSVTEAT
RSYVVL SWKPPGQRGHEGIMYFVEKCDVGAENWQRVNTEL PVKSPRFALFDLVEGKSYRFRVRCNSAGV
GEPSETTEVTVVGDKLDIPKAPGKIIPSRNTDTSVVVSWEESRDAKELVGYIEASVVGSGKWEPCNNNP
VKGSRFTCHGLTTAQSYIFRVRVNAAGLSEYQDSEAEVKAIAVPSAPYDITCLESFRDSMVLGWKQ
PDTTGGAETGYVYNYREVVGEPGKWREANIKAVSDAAYKISNLKENTLYQFQVSAMNIAGLGAPSTVS
ECFKCEEWTIAVPGPPHSVKLSEVRKNSLVLQWKPPVYSGRTPVTGYFVDLKEASAKDDQWRGLNEAAIV
NKYLRVQGLKEGTSYVFRVRVNAQAGVGKPSDLAGPVVAETRPGTKEVVSVDDDGVISLNFECQMTPK
SEFVWSKDYVPTEDSPRLEVENKGDKTMTFKDLGTDDLTGTYSCDVTDTDGIASSYLIDEEEMKRLALS
QEHKFTVPTKSELAVEILEKGQVRFWMQAEKLSNAKVSYIFNEKEIFEGPKYKMHIDRNTGIIEMFME
KLQDEDEGTYTFQIQDGKATGHSTLVIGDVYKKLQKEAEFQRQEWIRKQGPFAEYLSWEVTGECNVLL
KCKVANIKKETHIVWYKDEREISVDEKHDFKDGICTLLITEFSKKDAGFYEVILKDDRGRKDKSRLKLVD
AFQDLMTEVCKKIALSATDLKIQSTAEGIRLYSFVCCYLLDDLKVNWSHNGTGIKYTD RVKSGVTGEQIWL
QINEPTPNDKGKYMELFDGKTGHQKTVDL SGQAFDEAF AEFQRLKQAAIAEKNRNRVLGGLPDVVITIQE
GKALNLT CNVWGDPPPEVSWLKNEKPLTSDDHCSLKFEAGKTAFFTISGVSTADSGKYGLVVKNYGSET
SDFTVSVFIP EEELRKGAMEPPKGNQSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

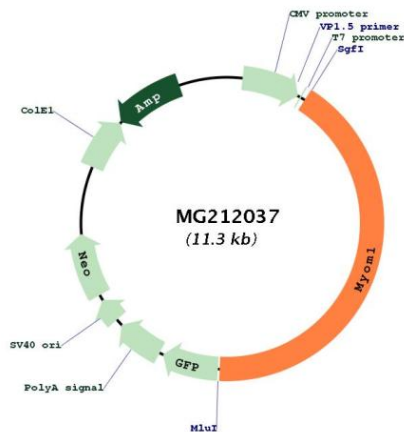


ACCN: BC060378

ORF Size: 4709 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:	BC060378 , AAH60378
RefSeq Size:	5259 bp
RefSeq ORF:	4709 bp
Locus ID:	17929
Cytogenetics:	17 E1.3
Gene Summary:	May link the intermediate filament cytoskeleton to the M-disk of the myofibrils in striated muscle. May also contact myosin filaments. Also binds beta-integrins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212037