

Product datasheet for **MG201424**

MyI1 (BC059087) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: MyI1 (BC059087) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: MyI1
 Synonyms: MLC1f, MLC3f
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG201424 representing BC059087
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCTTCAGTGCTGACCAGATTGCCGACTTCAAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGAAT
 GCAAGATCACCTAAGTCAGGTGGGAGACGTCTCCGGGCTCTGGGCACCAATCCCACCAATGCAGAGGT
 CAAGAAGTTCTTGGGAACCCAGCAATGAAGAGATGAATGCTAAGAAAATCGAGTTTGAACAGTTTCTG
 CCCATGATGCAAGCTATCTCAACAACAAGGACCAGGGAGTTATGAAGATTTCTGTTGAGGGTCTGCGTG
 TCTTCGACAAGGAGGCAATGGCACCGTCATGGGTGCTGAACTCCGCCATGTCCTCGCCACTCTGGGAGA
 GAAGATGAAGGAGGAAGAGGTAGAAGCGTTGCTGGCAGGCCAGGAGGACTCCAATGGCTGCATCAACTAT
 GAAGGTACAGCCAGCCTCACCTCATTAAGGAGAGATTCATTTTCAACTTTATTTTCTCTCTCTATTGA
 CATATATGACTTATTATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201424 representing BC059087
 Red=Cloning site Green=Tags(s)

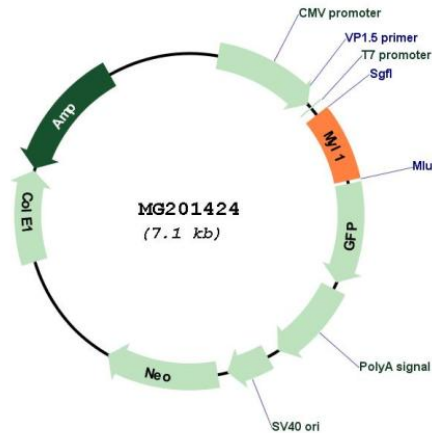
MSFSADQIADFKEAFLLFDRTGECKITLSQVGDVLRALGTNPTNAEVKKVLGNSNEEMNAKKIEFEQFL
 PMMQAISNNKQGGYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMKEEVEALLAGQEDSNGCINY
 EGTASLTLRRDSFSTLFSSLLTYMTYYK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: BC059087

ORF Size: 510 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:	<ol style="list-style-type: none">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:	<u>BC059087.1</u>
RefSeq Size:	649 bp
RefSeq ORF:	512 bp
Locus ID:	17901
Cytogenetics:	1 33.71 cM
Gene Summary:	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two non-phosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]