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Product datasheet for MG218062

Myo1c (NM_001080775) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo1c (NM_001080775) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myo1c
Synonyms:	C80397; mm1bet; mm1beta; MMIb; MYO1E; myr; myr2; NMI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG218062 representing NM_001080775
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCTACCGGGCATCGGCCCTGGGCAGTGACGGGGTTCGAGTGACCATGGAGAGCGCCTTGACTGCCC
GAGACCGGGTAGGGGTGCAGGACTTTGTCCTGCTGGAGAATTTCACCAGTGAGGCTGCCTTCATTGAGAA
CCTCCGGCGGCGGTTCCGGGAGAACCTCATTTATACCTACATCGGTCCTGTCCTAGTCTCTGTCAATCCC
TACCGAGACCTACAGATCTACAGCCGGCAGCATATGGAACGCTACCGTGGTGTCAGTTTCTATGAAGTAC
CACCTCATTTGTTTGCAGTGGCTGACACTGTATACCGGGCACTTCGTACTGAGCGTCGGGACCAGGCAGT
GATGATTTCTGGAGAGAGTGGGGCAGGCAAGACAGAGGCCACCAAGAGACTGCTCCAGTTCTATGCAGAG
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CAAAATCACGGAGAGCGGAACTTCCACGTCTTTTACCAGCTACTGGAGGGGGGCGAGGAGGAGACTCTCC
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CTGGAGAAGTTGGAGGACACTGTCAAGCCCCACCCTCACTTCCTGACGCACAAGCTCGCTGACCAGAAGA
CCAGGAAATCTCTAGACCGAGGGGAGTTCCGCCTTCTGCATTATGCTGGAGAGGTGACCTACAGTGTGAC
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GCAAGAAGGACAACTACCCCCAGAGTGTCCCCAGACTCTTCATTAGCACACGGCTTGGCACAGAGGAGAT
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TAACGTTTGCAGGGGGTCCAGGCAGGGACGGCATCATTGACTTCACATCGGGCTCAGAGCTTCTCATCAC
CAAGGCTAAGAATGGCCACCTGGCTGTGGTGGCCCCACGGCTGAATTCTCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218062 representing NM_001080775
Red=Cloning site Green=Tags(s)

MRYRASALGSDGVRVTMESALTARDRVGVQDFVLLENFTSEAAFIENLRRRFRENLIYTYIGPVLVSVNP
YRDLQIYSRQHMERYRGVSFYEVPPHLFAVADTVYRALRTERRDQAVMISGESGAGKTEATKRLLQFYAE
TCPAPERGGAVRDRLLQSNPVLEAFGNAKTLRNDNSSRFGKYMDVQFDFKGAPVGGHILSYLLEKSRVVH
QNHGERNFHVFYQLLEGGEEETLRRLGLERNPQSYLYLVKGQCAKVSSINDKSDWKVMRKALSVIDFTED
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PIMAQCFDKSELSDKKRPETVATQFKMSLLQLVEILRSKEPAYIRCIKPNDAKQPGRFDEVLIRHQVKYL
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PKTLFATEDSLEVRRQSLATKIQAAWRGFHWRQKFLRVKRSAICIQSWWRGTLGRRKAAKRKWAAQTIRR
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CRSISPEWKQQLQQKAVASEIFKGKKDNYPQSVPRLFISTRLGTEEISPRVLQSLGSEPIQYAVPVVKYD
RKGYKPRPRQLLLTPSAVVIVEDAKVKQRIDYANLTGISVSSLSDSLFVLHVQREDNKQKGDVVLQSDHV
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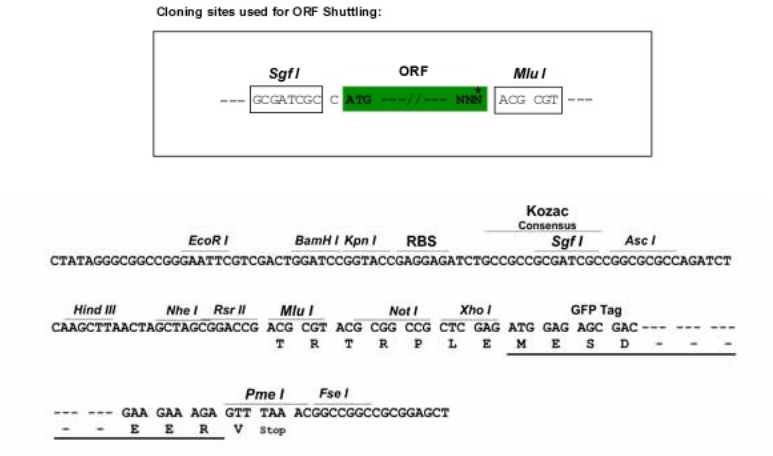
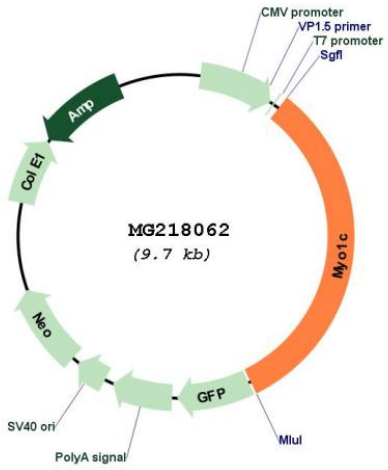
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001080775

ORF Size: 3132 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:	NM_001080775.1, NP_001074244.1
RefSeq Size:	5311 bp
RefSeq ORF:	3135 bp
Locus ID:	17913
UniProt ID:	Q9WTI7
Cytogenetics:	11 45.92 cM
Gene Summary:	This gene encodes a member of the unconventional myosin protein family, which are actin-based molecular motors. The protein is found in the cytoplasm, and one isoform with a unique N-terminus is also found in the nucleus. The protein functions in intracellular vesicle transport to the plasma membrane. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]