

Product datasheet for **MG215219**

Mb (NM_001164048) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mb (NM_001164048) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mb
Synonyms: AI325109
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215219 representing NM_001164048
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCAGTGATGGGGAGTGGCAGCTGGTGTGAATGTCTGGGGGAAGGTGGAGGCCACCTTGCTG
GCCATGGACAGGAAGTCTCATCGGTCTGTTAAGACTCACCTGAGACCCTGGATAAGTTTGACAAGTT
CAAGAACTTGAAGTCAGAGGAAGATATGAAGGGCTCAGAGGACCTGAAGAAGCATGGTTGCACCGTGCTC
ACAGCCCTGGGTACCATCTGAAGAAGAAGGGACAACATGCTGCCGAGATCCAGCCTCTAGCCCAATCAC
ACGCCACCAAGCACAAGATCCCGGTCAAGTACCTGGAGTTTATCTCAGAAATTATCATTGAAGTCTGAA
GAAGAGACATTCCGGGGACTTTGGAGCAGATGCTCAGGGCGCCATGAGCAAGGCCCTGGAGCTTCCGG
AATGACATTGCCGCAAGTACAAGGAGCTAGGCTTCCAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215219 representing NM_001164048
Red=Cloning site Green=Tags(s)

MGLSDGEWQLVLNVWGKVEADLAGHGQEVLIQLFKTHPETLDFDKFKNLKSEEDMKGSDELKKHGCTVL
TALGTILKKGQHAAEIQPLAQSHATKHKIPVKYLEFISEIIIEVLKRRHSGDFGADAQGAMSKALELFR
NDIAAKYKELGFQG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

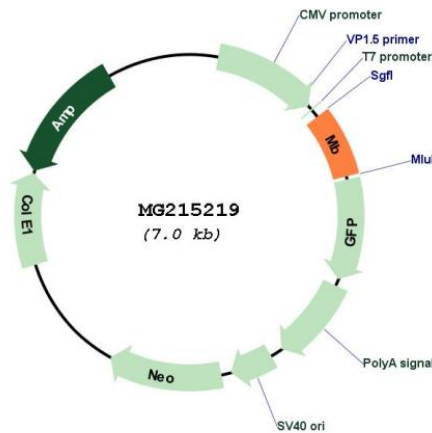


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001164048

ORF Size: 462 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>NM_001164048.1, NP_001157520.1</u>
RefSeq Size:	981 bp
RefSeq ORF:	465 bp
Locus ID:	17189
UniProt ID:	<u>P04247</u>
Cytogenetics:	15 36.36 cM
Gene Summary:	Serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles. [UniProtKB/Swiss-Prot Function]