

## Product datasheet for **MG208152**

### Mef2d (NM\_133665) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2d (NM_133665) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mef2d
Synonyms:	C80750
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208152 representing NM\_133665  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAGGAAAAAGATTAGATCCAGCGAATCACTGATGAACGGAACCGCCAGGTGACCTTACCAAGC  
 GGAAGTTTGGACTGATGAAGAAGGCCTACGAGCTGAGTGTGCTGTGCGACTGCGAGATCGCGCTCATCAT  
 CTTCAACCACTCCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAGGTGCTGCTCAAGTACACC  
 GAGTACAACGAGCCACACGAGAGCCGACCAATGCTGACATCATCGAGACCCTGAGGAAGAAGGGTTTCA  
 ACGGCTGTGACAGCCAGAGCCGGATGGGGAGGACTCACTGGAGCAGAGCCCCCTGCTGGAGGACAAGTA  
 CCGGGCGGCCAGTGAGGAGCTGGATGGGCTCTTCAGGCGCTATGGGTATCTGTTCCGGCCCCAACTTT  
 GCCATGCCTGTACAGTGCCCGTGTCCAATCAGAGCTCCATGCAGTTCAGCAATCCAAGTAGCTCTCTGG  
 TCACTCCTTCCCTGGTGACATCATCCCTTACGGACCCACGGCTCCTGTCCCCCAGCAGCCAGCACTACA  
 GAGAAACAGTGTCTCCAGGCTTGCCCCAGCGCCTGCTAGTGCAGGAGCCATGCTGGGTGGAGACCTC  
 AACAGTGTAAATGGAGCCTGCCCGAGCCCGTTGGGAATGGCTATGTAGTGCAGGAGCTTCCCCTGGCC  
 TCCTCCCTGTGGCCAATGGCAACAGCCTAAACAAGTATCCCTGCCAAGTCTCCGCCCCACCCACCCA  
 CAACCCAGCTTGGAGCCCCAGCCGCAAGCCTGATCTGCGGGTCACTACTCCAGGGAGGCAAAAGGG  
 TTAATGCATATTTGAACAATGCCAGCGCCTTGGGGTCTCCAGTCTACCCACTCGCTCACCACCCAG  
 TGGTTTCCGTGGCAACACCAAGTTTACTCAGCCAGGGCCTCCCCTTCTCCTCCATGCCACTGCCTACAA  
 CACAGATTACCAGCTGCCAGTGCGAGAGCTATCCTCCTTACCAGCCTTCACTTCACTGCAGGGCTGGCA  
 CTAGGCAATGTACCCGCTGGCAGCAGCCAGCCGCCCCAGCAGCCACAACCGCCACAACCGCCACAGT  
 CACAGCCACAGCCACACAGCCACAGCCACAGCCACCTCAGCAACAGCCCCACTTGGTCCCCGTTTC  
 TCTCAGCAACCTCATCCCTGGCAGCCCTTGCCTCACGTGGGTGCTGCTCTCACAGTCACTACCCACCCC  
 CACATCAGCATCAAGTCAGAACCAGTGTCCCAAGTCGTAACGAGCCCTGCACCTCCTCCACCAGCTG  
 GTTCCAGCTGCCCGCCTGAGCCTGGCGAAGGTCTCAGCAGCCAGCTGGAGGATCCTATGAGACCGG  
 GGACCGGATGATGGACGGGGGACTTTGGGCCACACTAGGCCTGCTGCGCCAGCCCCAGAGCCTGAG  
 GCTGAGGGCTCAGCTGTGAAGAGGATGCGGCTGGATACTTGACATTAAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208152 representing NM\_133665  
 Red=Cloning site Green=Tags(s)

MGRKKIQIRITDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNHSNKLQYASTDMDKVLKLYT  
 EYNPHESTRNADIETLRKKGFNGCDSPEPDGEDSLEQSPLEDKYRRASEELDGLFRRYGSSVPAPNF  
 AMPVTVPVSNQSSMQFSNPSSSLVTPSLVTSSLTDPRLSPQPQALQRNSVSPGLPQRPASAGAMLGGDL  
 NSANGACPSVPGNGYVSARASPLLPVANGNSLNKVIPAKSPPPTHNTQLGAPSRKPDLRVITSQGGKG  
 LMHHLNNAQRLGVSQSTHSLTTPVVSVAATPSLLSQGLPFSSMPTAYNTDYQLPSAELSSLPAFSSPAGLA  
 LGNVTAWQP  
 HISIKSEPVSPSRERSPAPPPAVFPAARPEPGEGLSSPAGGSYETGDRDDGRGDFGPTLGLLRPAPEPE  
 AEGSAVKRMRDLDTWTLK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_133665

**ORF Size:** 1521 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\\_133665.4](#)

**RefSeq Size:** 2459 bp

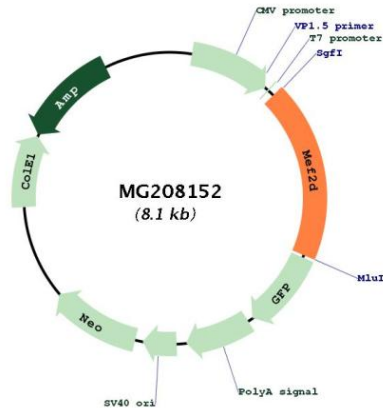
**RefSeq ORF:** 1524 bp

**Locus ID:** 17261

**Cytogenetics:** 3 38.78 cM

**Gene Summary:**

Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. Plays a critical role in the regulation of neuronal apoptosis.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MG208152