

## Product datasheet for **RG203168**

### MDFI (NM\_005586) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MDFI (NM\_005586) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MDFI  
**Synonyms:** I-MF; I-mfa  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203168 representing NM\_005586  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACCAGGTGAGCGGCCAGCGCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCGG  
GCCAGCCAGACCCTATCCCTCCTTCTGGGCTGGAGGTAGTAACAGGATCCACTACCCTGCGGAGGC  
AGCACCAGAGGAGGGCTCCCTGGAGGAGCGGCAACCCCATGCCCAAGGCAATGGCCCTGGCATCCCC  
CAGGGCCTGGACAGCACTGACCTCGACGTCCCCACAGAAGCTGTGACATGCCAGCCTCAGGGGAACCCCT  
TGGGCTGCACCCACTTCTGCCAATGACTCTGGCCACCCCTCAGAGCTGGGCGGCACCAGACGGGCGGG  
GAATGGTGCCCTGGGTGGCCCAAGGCCACCGGAAGTTGCAGACACACCCATCTCTCGCCAGCCAGGGC  
AGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCACCTCCCAGATCCCCCTCCAGGCACAGGAAGACTGCT  
GTGTCCAATGCATCCTGTCTGCTGTTCTGCGAGTTCCTGACGCTGTGCAACATCGTCCTGGACTGCGC  
CACCTGTGGTCTGCGAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGTGGCTCTGGCGAGTGTGCC  
GACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATGCCTGCTGCGAGTCCGCGGACTGCCTGG  
AGATCTGCATGGAGTGTGTGGGCTCTGCTTCTCTCTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203168 representing NM\_005586  
 Red=Cloning site Green=Tags(s)

MYQVSGQRPSGCDAPYGAPSAAPGPAQTLSELLPGLEVVTGSTHPAEAAPEEGSLEEATPMPQGNPGIP  
 QGLDSTDLDPVTEAVTCQPQGNPLGCTPLLNDSGHPSELGGTRRAGNGALGGPKAHRKLQTHPSLASQG  
 SKKSKSSSKSTTSQIPLQAQEDCCVHCILSCLFCEFLTLCNIVLDCATCGSCSSEDSCLCCCCGSGECA  
 DCDLPCDLDCGILDACCESADCLEICMECCGLCFSS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_005586

**ORF Size:** 738 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\\_005586.4](#)

**RefSeq Size:** 1558 bp

**RefSeq ORF:** 741 bp

**Locus ID:** 4188

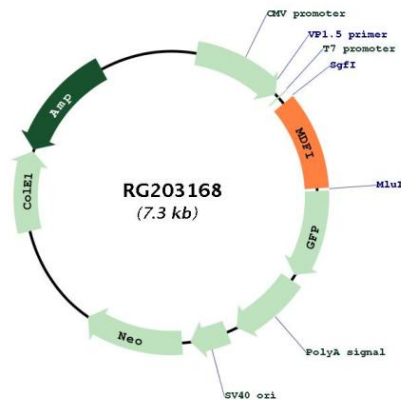
**UniProt ID:** [Q99750](#)

**Cytogenetics:** 6p21.1

**Protein Families:** Transcription Factors

**Gene Summary:** This protein is a transcription factor that negatively regulates other myogenic family proteins. Studies of the mouse homolog, I-mf, show that it interferes with myogenic factor function by masking nuclear localization signals and preventing DNA binding. Knockout mouse studies show defects in the formation of vertebrae and ribs that also involve cartilage formation in these structures. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG203168