

## Product datasheet for **MC226540**

### Mdfi (NM\_001276390) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mdfi (NM\_001276390) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mdfi  
**Synonyms:** I-mf; I-mfa  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC226540 representing NM\_001276390  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCAGGTGAGCGGTCAGTGCCTTCTCGCTGCGACGCGCCTCATGGAGTCCCCAGCGCTGCCCTGG  
ACCCAGCCAGACCATGTCCCTCCTCCCTGGGCTGGAGGTAGCAAGATCCACTCACCTGTAGAGGCATC  
TTCTGAAGAGGGCTTCCCGGAGGAGGCGGCACCCTCCATGCCCATGACAGTGGTCTCCGGGCTCAGCAG  
GCTCTGAACAGCATTGACCTCGATGTCCCACAGAAGCTGTGACGTGCCAGCCTCAAGGGAACCCCAAG  
GCTGCACCCCACTACTGCCAAATGGCTCCAGCCACGACCCTCTCAGAACCAGGAGTGCAGGGCATGC  
GGGGAACGGTGTCTGGGCGGGTCCAAGGCCACCGGAAGTTGCAGACGCATCCATCTCTGGGCAGCCAG  
GCTGGAAGGAAAAGCAGAGGCAGCGCCCGTCCAGCTCACAGGTCCCTCTCCAGGCACAGGAAGATTGCT  
GCGTCCACTGCATACTGTCTTCTATTCTGTGAGTTCCTGACGCTCTGTAACATCCTCCTGGACTGCGC  
CACCTGTGGTCTCTGCAGCTCTGAGGACTCCTGCCTCTGCTGCTGCTGTGGTCCGGCAGTGCAGC  
GACTGTGACCTGCCCTGCGACCTGGACTGCGGCATCGTGGATGCCTGCTGCGAGTCCGCAGACTGCTTGG  
AGATATGCATGGAGTGTGTGGACTCTGTTTCTCTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276390  
**Insert Size:** 741 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001276390.1, NP_001263319.1</u>
<b>RefSeq Size:</b>	1593 bp
<b>RefSeq ORF:</b>	741 bp
<b>Locus ID:</b>	17240
<b>UniProt ID:</b>	<u>P70331</u>
<b>Cytogenetics:</b>	17 23.99 cM
<b>Gene Summary:</b>	<p>Inhibits the transactivation activity of the Myod family of myogenic factors and represses myogenesis. Acts by associating with Myod family members and retaining them in the cytoplasm by masking their nuclear localization signals. Can also interfere with the DNA-binding activity of Myod family members. Plays an important role in trophoblast and chondrogenic differentiation. Regulates the transcriptional activity of TCF7L1/TCF3 by interacting directly with TCF7L1/TCF3 and preventing it from binding DNA. Binds to the axin complex, resulting in an increase in the level of free beta-catenin. Affects axin regulation of the WNT and JNK signaling pathways.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate 5' exon structure and differs in the 5' UTR compared to variant 2. Variants 1, 2 and 3 encode the same isoform (1).</p>