

## Product datasheet for **MR228794**

### Mdfi (NM\_001276391) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mdfi (NM\_001276391) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mdfi  
**Synonyms:** I-mf; I-mfa  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228794 representing NM\_001276391  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCCACCCTAGTCCTTGATGTGGTCCCTTTCTCCTTCCCTTATCTGGGGTATTCTGAGTACCAACA  
CTCAGTCACAGACGTGCAGAGCCCAGACCATGTCCTCCTCCCTGGGCTGGAGGTAGCAAGATCCACTCA  
CCCTGTAGAGGCATCTTCTGAAGAGGGTTCCCGGAGGAGCGGCACCCTCCATGCCCATGACAGTGGT  
CTCCGGGCTCAGCAGGCTCTGAACAGCATTGACCTCGATGTCCACAGAAGCTGTGACGTGCCAGCCTC  
AAGGGAACCCCAAGGCTGCACCCCACTACTGCCAAATGGCTCCAGCCACGACCCTCTCAGAACCGGG  
CAGTGCAGGGCATGCGGGGAACGGTGCTCTGGCGGGTCCAAGGCCACCAGGAAATTGCAGACGCATCCA  
TCTCTGGCAGCCAGGCTGGAAGGAAAAGCAGAGGCAGCGCCGGTCCAGCTCACAGGTCCTCTCCAGG  
CACAGGAAGATTGCTGCGTCCACTGCATACTGTCTGTCTATTCTGTGAGTTCTGACGCTCTGTAACAT  
CCTCTGGACTGCGCCACCTGTGGCTCCTGCAGCTCTGAGGACTCCTGCCTCTGCTGCTGCTGTGGG  
TCCGGCGAGTGCAGGACTGTGACCTGCCCTGCGACCTGGACTGCGGCATCGTGGATCCCTGCTGCGAGT  
CCGAGACTGCTTGAGATATGCATGGAGTGTGTGGACTCTGTTTCTCCTCC**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**



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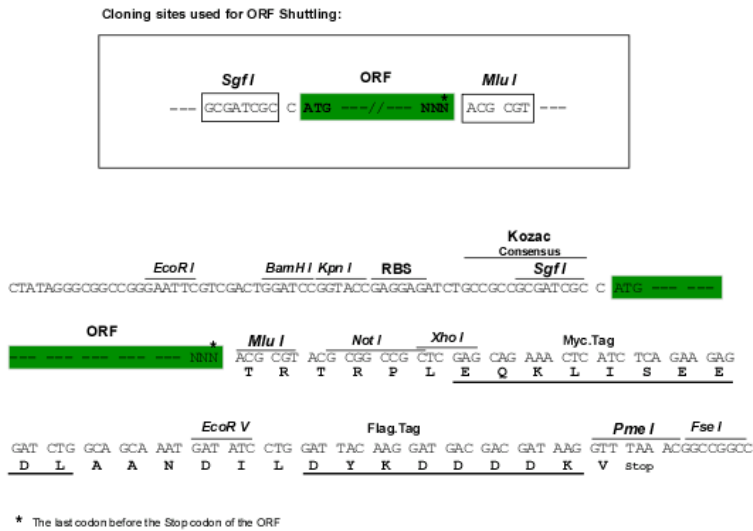
Protein Sequence: >MR228794 representing NM\_001276391  
 Red=Cloning site Green=Tags(s)

MPPLVLDVVPFLLSLIWGILSTNTQSQT CRAQTM SLLPGLVARSTHPVEASSEEGFP EEAAPSMPHDSG  
 LRAQQALNSIDLDPTEAVTCQPQGNPQGCTPLLPNGSSHDHLS EPGSAGHAGNGALGGSKAHRKLQTHP  
 SLGSQAGRKSRGSARSASQVPLQAQEDCCVHCILSCLFCEFLTLCNILLDCATCGSCSSEDSCLCCCCCG  
 SGECADCDLPCDLDCGIVDACCESADCLEICMECCGLCFSS

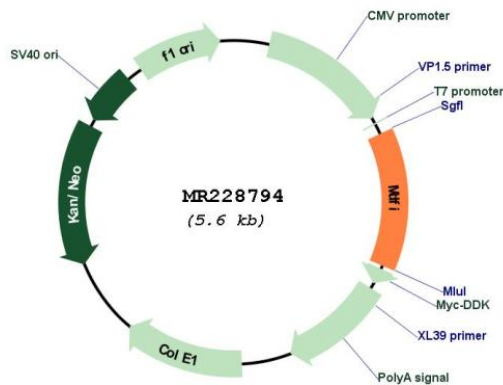
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001276391  
 ORF Size: 753 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001276391.1</a> , <a href="#">NP_001263320.1</a>
<b>RefSeq Size:</b>	1483 bp
<b>RefSeq ORF:</b>	756 bp
<b>Locus ID:</b>	17240
<b>Cytogenetics:</b>	17 23.99 cM
<b>MW:</b>	26.6 kDa
<b>Gene Summary:</b>	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]