

Product datasheet for **SC334271**

MDFI (NM_001300805) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDFI (NM_001300805) Human 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:	>NCBI ORF sequence for NM_001300805, the custom clone sequence may differ by one or more nucleotides

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ATGTACCAGTGAGCGGCCAGCGCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCGG
GCCAGGCCAGCCTCAGGGGAACCCCTTGGGCTGCACCCCACTTCTGCCGAATGACTCTGGCCACCCCTC
AGAGCTGGGCGGCACCAGACGGGCGGGGAATGGTGCCTGGGTGGCCCCAAGGCCACCGGAAGTTGCAG
ACACACCCATCTCTGCCAGCCAGGGCAGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCACCTCCCAGA
TCCCCCTCAGGCACAGGAAGACTGCTGTGTCCACTGCATCCTGTCTGCCTGTTCTGCGAGTTCCTGAC
GCTGTGCAACATCGTCTGGACTGCGCCACCTGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGC
TGCTGTGTGGCTCTGGCGAGTGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATG
CCTGCTGCGAGTCCGCGGACTGCCTGGAGATCTGCATGGAGTGTGTGGGCTCTGCTTCTCTCCTGA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001300805
OTI Disclaimer:	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).
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).



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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_001300805.1](#), [NP_001287734.1](#)

RefSeq Size: 1451 bp

RefSeq ORF: 558 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]
Transcript Variant: This variant (2) differs in the 5' UTR and lacks an in-frame exon in the 5' coding region, compared to variant 1. It encodes a shorter isoform (2), compared to isoform 1.