

Product datasheet for **SC110947**

MDFI (NM_005586) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDFI (NM_005586) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDFI
Synonyms:	I-MF; I-mfa
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110947 sequence for NM_005586 edited (data generated by NextGen Sequencing)

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ATGTACCAGGTGAGCGGCCAGCGCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGC
GCAGCCCCGGGCCAGCCAGACCCTATCCCTCCTTCTGGGCTGGAGGTAGTAACAGGA
TCCACTCACCTGCGGAGGCAGCACCAGAGGAGGGCTCCCTGGAGGAGGCGGCAACCCCC
ATGCCCAAGGCAATGGCCCTGGCATCCCCAGGGCCTGGACAGCACTGACCTCGACGTC
CCCACAGAAGCTGTGACATGCCAGCCTCAGGGGAACCCCTTGGGCTGCACCCACTTCTG
CCGAATGACTCTGGCCACCCCTCAGAGCTGGGCGGCACCAGACGGGCGGGGAATGGTGCC
CTGGGTGGCCCCAAGGCCACCGGAAGTTGCAGACACACCCATCTCTCGCCAGCCAGGGC
AGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCACCTCCCAGATCCCCCTCCAGGCACAG
GAAGACTGCTGTGTCCACTGCATCCTGTCTGCCTGTTTCTGCGAGTTCTGACGCTGTGC
AACATCGTCTGGACTGCGCCACCTGTGGCTCCTGCAGCTCGGAGGACTGTTGCCTCTGC
TGCTGCTGCTGTGGCTCTGGCGAGTGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGC
GGCATCCTGGATGCCTGTGCGAGTCCGCGGACTGCCTGGAGATCTGCATGGAGTGTGTG
GGGCTCTGCTTCTCCTCTGA

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Clone variation with respect to NM_005586.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005586 unedited GGGGCAACACTTGGTATTTGTNAAACGACTTACTANAGGGNCGGCCGCGNAATTCGGCA CGAGGGGAGAAAGCGCGAGTGAGAGGGGAAGGGGCGCCAGGCGAGCACCCGGGAGCCAGC GGGACCTGGGCAGGGGCGCCCGGAGCAGGCGCGCATGGCGGGCCCCGCGCGGGGATCCGG CTGGAAGAGAGCGTAGCACGGCTCGCACGAGTCCGGGGCCGATGTACCAGGTGAGCGGCC AGCGCCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCGGGCCAGCCC AGACCCATCCCTCCTTCTGGGCTGGAGGTAGTAACAGGATCCACTCACCTGCGGAGG CAGCACCAAGAGGAGGGCTCCCTGGAGGAGCGGCAACCCCATGCCCAAGGCAATGGCC CTGGCATCCCCAGGGCCTGGACAGCACTGACCTCGACGTCCCCACAGAAGCTGTGACAT GCCAGCCTCAGGGGAACCCCTTGGGCTGCACCCCACTTCTGCCGAATGACTCTGGCCACC CCTCAGAGCTGGGCGGCACCAGACGGGCGGGGAATGGTGCCTGGGTGGCCCAAGGCC ACCGGAAGTTGCAGACACACCCATCTCTCGCCAGCCAGGGCAGCAAGAAGAGTAAGAGCA GCAGCAAATCCACCACCTCCCAGATCCCCCTCCAGGCACAGGAAGACTGCTGTGTCCACT GCATCCTGTCTGCTGTCTGCGAGTTCCTGACGCTGTGCAACATCGTCTGGACTGCG CCACCTGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGCTGTGGCTCTG GNCGAGTGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGCGGCATNCTGGATGCCTGC TGGAGTCCGCGGACTGTGGAGAT
Restriction Sites:	Please inquire
ACCN:	NM_005586
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).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_005586.2</u> , <u>NP_005577.1</u>
RefSeq Size:	1558 bp
RefSeq ORF:	741 bp
Locus ID:	4188
UniProt ID:	<u>Q99750</u>
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 (3) differs in the 5' UTR, compared to variant 1. It encodes the longer isoform (1). Variants 1, 3, and 4 encode the same isoform (1).