

Product datasheet for **SC123736**

MDFI (BC007836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDFI (BC007836) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDFI
Synonyms:	I-MF; I-mfa; inhibitor of MyoD family a; MyoD family inhibitor; OTTHUMP00000016375; OTTHUMP00000196414
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC007836 edited
 GAGAAAGCAGCGAGTGTAGAGGGGAAGGGGCGCCAGGCGAGCACCCGGGAGCCAGCGGGAC
 CTGGGCAGGGGCGCCCGGAGCAGGCGCGCATGGCGGGCCCCGCGCGGGATCCGGCTGGA
 AGAGAGCGTAGCACGGCTCGCACGAGTCCGGGGCCGATGTACCAGGTGAGCGGCCAGCGC
 CCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCGGGCCAGCCCAGACC
 CTATCCCTCCTTCTGGGCTGGAGGTAGTAACAGGATCCAATCACCTGCGGAGGCAGCA
 CCAGAGGAGGGTCCCTGGAGGAGGCGGCAACCCCCATGCCCAAGGCAATGGCCCTGGC
 ATCCCCCAGGGCCTGGACAGCACTGACCTCGACGTCCCCACAGAAGCTGTGACATGCCAG
 CCTCAGGGGAACCCCTTGGGCTGCACCCCACTTCTGCCGAATGACTCTGGCCACCCCTCA
 GAGCTGGGCGGCACCAGACGGGCGGGGAATGGTGCCTGGGTGGCCCCAAGGCCACCGG
 AAGTTGCAGACACACCCATCTCTCGCCAGCCAGGCGAGCAAGAAGAGTAAGAGCAGCAGC
 AAATCCACCACCTCCCAGATCCCCCTCCAGGCACAGGAAGACTGCTGTGTCCACTGCATC
 CTGTCTGCCTGTCTGCGAGTTCCTGACGCTGTGCAACATCGTCTGGACTGCGCCACC
 TGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGTGGCTCTGGCGAG
 TGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATGCCTGCTGCGAG
 TCCGCGGACTGCCTGGAGATCTGCATGGAGTGTGTGGGCTCTGCTTCTCCTCTGAGCC
 TCTGTGCGGGGCTAAGCCAGCCTGGCGCCCTGCAGATCCAGCAGGGTCCCTCTGAGTG
 GGGCCAGGCCAGGACTGTACACAAGGCTTGAGAAGCCCCCTCTCCCTGGTCTCTCCT
 ACCCACCCATGTCCTCTCAGAACCCAGCCTTGAAAATAGTGGGGGGCACTCAGAGGGGC
 CACCTCCTCAGCCGTGGGTGGTGGGCCCATGGCAGAGAAGCCTGAACTCTTTACTGGGTT
 ACCAGGTTACATATTGCTGAGGACCTGACAGGACAACCTAGGGGAGGGCTGGGGTGGG
 GACCGCAGGGGCGAGCCAGGGCTGGGGAACACTGTGAAAGTACTTGGGGAGGGTGGGG
 GGTGGGGCCGTAGCTCTACTCTCCCTGCTCCTGGTGCCTCTCTCCTCCACCCC
 AGGCTTAGAGGACAGAAAAATGTGAAGAGACGCCCCACCCACCCCTCAGCCAGCCCTCC
 AGTCTCCTTTCTAGGCTTTTTTGGGGGCTAACCACGCAAGTACCACAGGGGAGGG
 CTAGGCGAGAGCCTGGGGTGGGGCGGGAGGGGGAACAGTATGGAAAAGACTGGAAGGGGA
 AAGGAAGGGAAGGGAGGGAGGGTCTGTTCTATCTGTTGCTGTAATAAAGATATTTGTCC
 ATCTCAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC007836 unedited
 GGCGCCAGAATTGTATACGACTTATATAGGCGGCACGCGAATTCGCACGAGGAGAAAAGCG
 CGAGTGTAGAGGGGAAGGGGCGCCAGGCGAGCACCCGGGAGCCAGCGGGACCTGGGCAGGG
 GCGCCCCGAGCAGGCGCGCATGGCGGGCCCCGCGCGGGATCCGGCTGGAAGAGAGCGTA
 GCACGGCTCGCACGAGTCCGGGGCCGATGTACCAGGTGAGCGGCCAGCGCCCTCTGGCT
 GCGACGCGCCCTATGGAGCCCCCAGCGCAGCCCCGGGCCAGCCAGACCTATCCCTCC
 TTCTGGGCTGGAGGTAGTAACAGGATCCAATCACCTGCGGAGGCAGCACCCAGAGGAGG
 GCTCCCTGGAGGAGGCGGCAACCCCATGCCCAAGGCAATGGCCCTGGCATCCCCCAGG
 GCCTGGACAGCACTGACCTCGACGTCCCCACAGAAGCTGTGACATGCCAGCCTCAGGGGA
 ACCCCTTGGGCTGCACCCCACTTCTGCCGAATGACTCTGGCCACCCCTCAGAGCTGGGCG
 GCACCAGACGGGCGGGGAATGGTGCCTGGGTGGCCCCAAGGCCACCGGAAGTTGCAGA
 CACACCCATCTCTCGCCAGCCAGGCGAGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCA
 CCTCCCAGATCCCCCTCCAGGCACAGGAAGACTGCTGTGTCCACTGCATCCTGTCTGCT
 TGTCTGCGAGTTCCTGACGCTGTGCAACATCGTCTGGACTGCGCCACCTGTGGCTCCT
 GCAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGCTGTGGCTCTGGCGAGTGTGCCGACT
 GCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATGCCTGCTGCGAGTCCGCGGCT

Restriction Sites: Please inquire
ACCN: BC007836
Insert Size: 1592 bp

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:	BC007836.2 , AAH07836.1
RefSeq Size:	1583 bp
Locus ID:	4188
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]