

Product datasheet for RC236377

MDFI (NM_001300805) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MDFI (NM_001300805) Human 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: >RC236377 representing NM_001300805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACCAGGTGAGCGGCCAGCGCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCGG
 GCCCAGGCCAGCCTCAGGGGAACCCCTTGGGCTGCACCCACTTCTGCCGAATGACTCTGGCCACCCCTC
 AGAGCTGGCGGCACCAGACGGGCGGGGAATGGTCCCTGGTGGCCCAAGGCCACCGGAAGTTGCAG
 ACACACCCATCTCTCGCCAGCCAGGGCAGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCACCTCCAGA
 TCCCCCTCAGGCACAGGAAGACTGCTGTGTCCACTGCATCCTGTCTGCCTGTTCTGCGAGTTCCTGAC
 GCTGTGCAACATCGTCTGGACTGCGCCACCTGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGC
 TGCTGTGTGGCTCTGGCGAGTGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATG
 CCTGCTGCGAGTCCGCGGACTGCCTGGAGATCTGCATGGAGTGTGTGGGCTCTGCTTCTCTCTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236377 representing NM_001300805
 Red=Cloning site Green=Tags(s)

MYQVSGQRPSGCDAPYGAPSAAPGPGQPQGNPLGCTPLLPNDSGHPSELGGTRRAGNGALGGPKAHRKIQ
 THPSLASQGSKSKSSSKSTTSQIPLQAQEDCCVHCILSCLFCEFLTLCNIVLDCATCGSCSSEDSCLCC
 CCCGSGECADCDLPCDLDCGILDACCESADCLEICMECCGLCFSS

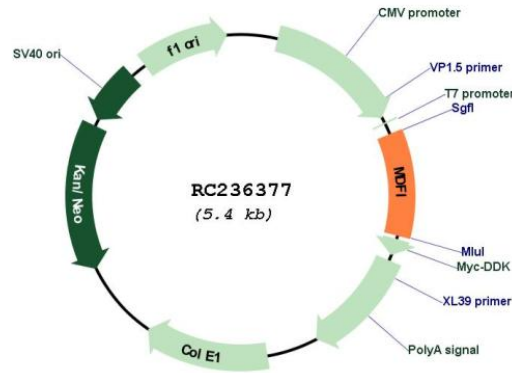
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001300805

ORF Size: 555 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_001300805.2
RefSeq Size:	1451 bp
RefSeq ORF:	558 bp
Locus ID:	4188
UniProt ID:	Q99750
Cytogenetics:	6p21.1
Protein Families:	Transcription Factors
MW:	19.4 kDa
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]