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Product datasheet for RC203168

MDFI (NM_005586) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDFI (NM_005586) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MDFI
Synonyms:	I-MF; I-mfa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203168 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTACCAGGTGAGCGGCCAGCGCCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCCAGCGCAGCCCCGG GCCCAGCCCAGACCCTATCCCTCCTTCCTGGGCTGGAGGTAGTAACAGGATCCACTCACCCTGCGGAGGC AGCACCAGAGGAGGGCTCCCTGGAGGAGGCGGCAACCCCCATGCCCCAAGGCAATGGCCCTGGCATCCCC CAGGGCCTGGACAGCACTGACCTCGACGTCCCCACAGAAGCTGTGACATGCCAGCCTCAGGGGAACCCCT TGGGCTGCACCCCACTTCTGCCGAATGACTCTGGCCACCCCTCAGAGCTGGGCGGCACCAGACGGGCGGG GAATGGTGCCCTGGGTGGCCCCAAGGCCCACCGGAAGTTGCAGACACACCCATCTCTCGCCAGCCAGGGC AGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCACCTCCCAGATCCCCCTCCAGGCACAGGAAGACTGCT GTGTCCACTGCATCCTGTCCTGCCTGTTCTGCGAGTTCCTGACGCTGTGCAACATCGTCCTGGACTGCGC CACCTGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGCTGTGGCTCTGGCGAGTGTGCC GACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATGCCTGCTGCGAGTCCGCGGACTGCCTGG AGATCTGCATGGAGTGCTGTGGGCTCTGCTTCTCCTCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203168 protein sequence
Red=Cloning site Green=Tags(s)

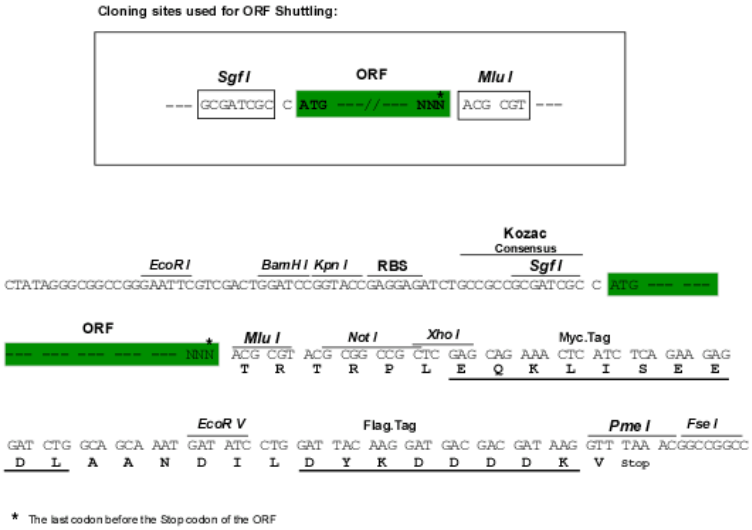
MYQVSGQRPSGCDAPYGAPSAAPGPAQTLSLLPGLEVVTGSTHPAEAAPEEGSLEEAATPMPQGNGPGIP
QGLDSTDLDVPTEAVTCQPQGNPLGCTPLLPNDSGHPSELGGTRRAGNGALGGPKAHRKLQTHPSLASQG
SKKSKSSSKSTTSQIPLQAQEDCCVHCILSCLFCEFLTLCNIVLDCATCGSCSSEDSCLCCCCCGSGECA
DCDLPCDLDCGILDACCESADCLEICMECCGLCFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6627_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005586

ORF Size: 738 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:
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_005586.4

RefSeq Size: 1634 bp

RefSeq ORF: 741 bp

Locus ID: 4188

UniProt ID: Q99750

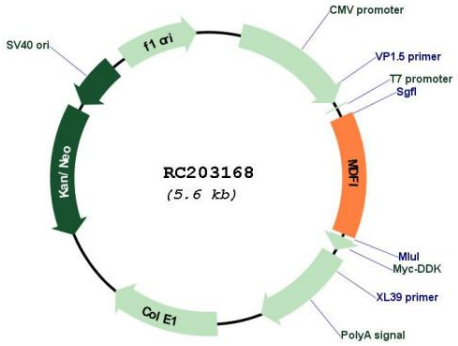
Cytogenetics: 6p21.1

Protein Families: Transcription Factors

MW: 25 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]

Product images:



Circular map for RC203168