

Product datasheet for MR219428

Mdfi (NM_001109973) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdfi (NM_001109973) Mouse 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:	>MR219428 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCAGGTGAGCGGTCACTGCCCTTCTCGCTGCGACGCGCCTCATGGAGTCCCAGCGCTGCCCTGG
ACCCAGCCAGACCATGTCCCTCCTCCCTGGGCTGGAGGTAGCAAGATCCACTCACCTGTAGAGGCATC
TTCTGAAGAGGGCTTCCCGGAGGAGGCGGCACCCTCCATGCCCATGACAGTGGTCTCCGGGCTCAGCAG
GCTCTGAACAGCATTGACCTCGATGTCCCACAGAAGCTGTGACGTGCCAGCCTCAAGGGAACCCCAAG
GCTGCACCCCACTACTGCCAAATGGCTCCAGCCACGACCCTCTCAGAACCGGGCAGTGCAGGGCATGC
GGGGAACGGTGTCTGGGCGGGTCCAAGGCCACCGGAAGTTGCAGACGCATCCATCTCTGGGCAGCCAG
GCTGGAAGGAAAAGCAGAGGCAGCGCCCGTCAAGGTCACAGGTCCTCTCCAGGCACAGGAAGATTGCT
GCGTCCACTGCATACTGTCTTATTCTGTGAGTTCCTGACGCTCTGTAACATCCTCCTGGACTGCGC
CACCTGTGGTCTCTGCAGCTCTGAGGACTCCTGCCTCTGCTGCTGCTGTGGTCCGGCAGTGCAGC
GACTGTGACCTGCCCTGCGACCTGGACTGCGGCATCGTGGATGCCTGCTGCGAGTCCGCAGACTGCTTGG
AGATATGCATGGAGTGTGTGGACTCTGTTTCTCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219428 protein sequence
 Red=Cloning site Green=Tags(s)

MSQVSGQCPSRCDAPHGVPSAALDPAQTMSELLPGLEVARSTHPVEASSEEGFPPEEAAPSMPHDSGLRAQQ
 ALNSIDLDPVTEAVTCQPQGNPQGCTPLLPNGSSHDLSEPGSAGHAGNGALGGSKAHRKLQTHPSLGSQ
 AGRKSRGSARSASQVPLQAQEDCCVHCILSCLFCEFLTLCNILLDCATCGSCSSEDSCLCCCCCGSGECA
 DCDLPCDLDCGIVDACCESADCLEICMECCGLCFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001109973

ORF Size: 741 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_001109973.2](#)

RefSeq Size: 1711 bp

RefSeq ORF: 741 bp

Locus ID: 17240

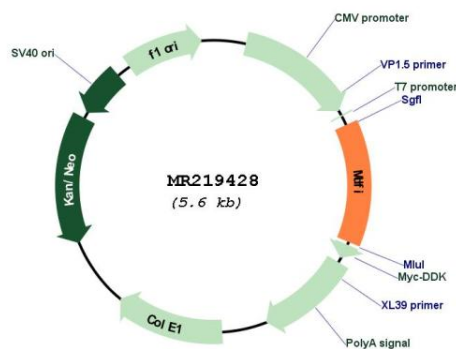
UniProt ID: [P70331](#)

Cytogenetics: 17 23.99 cM

MW: 25.3 kDa

Gene Summary: Inhibits the transactivation activity of the Myod family of myogenic factors and represses myogenesis. Acts by associating with Myod family members and retaining them in the cytoplasm by masking their nuclear localization signals. Can also interfere with the DNA-binding activity of Myod family members. Plays an important role in trophoblast and chondrogenic differentiation. Regulates the transcriptional activity of TCF7L1/TCF3 by interacting directly with TCF7L1/TCF3 and preventing it from binding DNA. Binds to the axin complex, resulting in an increase in the level of free beta-catenin. Affects axin regulation of the WNT and JNK signaling pathways.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219428