

Product datasheet for **MG219428**

Mdfi (NM_001109973) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mdfi (NM_001109973) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mdfi
Synonyms: I-mf; I-mfa
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219428 representing NM_001109973
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCAGGTGAGCGGTCACTGCCCTTCTCGCTGCGACGCGCCTCATGGAGTCCCAGCGCTGCCCTGG
ACCCAGCCAGACCATGTCCCTCCTCCCTGGGCTGGAGGTAGCAAGATCCACTCACCTGTAGAGGCATC
TTCTGAAGAGGGCTTCCCGGAGGAGGCGGCACCCTCCATGCCCATGACAGTGGTCTCCGGGCTCAGCAG
GCTCTGAACAGCATTGACCTCGATGTCCCACAGAAGCTGTGACGTGCCAGCCTCAAGGGAACCCCAAG
GCTGCACCCCACTACTGCCAAATGGCTCCAGCCACGACCACCTCTCAGAACCAGGAGTGCAGGGCATGC
GGGGAACGGTGTCTGGGCGGGTCCAAGGCCACCGGAAGTTGCAGACGCATCCATCTCTGGGCAGCCAG
GCTGGAAGGAAAAGCAGAGGCAGCGCCCGTCAAGGTCACAGGTCCTCTCCAGGCACAGGAAGATTGCT
GCGTCCACTGCATACTGTCTTATTCTGTGAGTTCCTGACGCTCTGTAACATCCTCCTGGACTGCGC
CACCTGTGGTCTCTGCAGCTCTGAGGACTCCTGCCTCTGCTGCTGCTGTGGTCCGGCAGTGCAGC
GACTGTGACCTGCCCTGCGACCTGGACTGCGGCATCGTGGATGCCTGCTGCGAGTCCGCAGACTGCTTGG
AGATATGCATGGAGTGTGTGGACTCTGTTTCTCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219428 representing NM_001109973
 Red=Cloning site Green=Tags(s)

MSQVSGQCPSRCDAPHGVPSAALDPAQTMSELLPGLEVARSTHPVEASSEEGFPPEEAAPSMPHDSGLRAQQ
 ALNSIDLDPVTEAVTCQPQGNPQGCTPLLPNGSSHDHLEPGSAGHAGNGALGGSKAHRKLQTHPSLGSQ
 AGRKSRGARSASQVPLQAQEDCCVHCILSCLFCEFLTLCNILLDCATCGSCSSEDSCLCCCCGSGECA
 DCDLPCDLDCGIVDACCESADCLEICMECCGLCFSS

TRTRPLE - GFP Tag - V

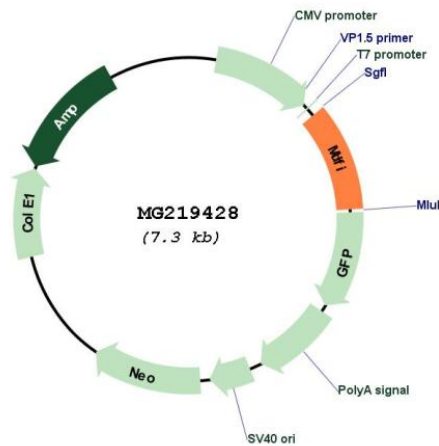
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001109973

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:	<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_001109973.2
RefSeq Size:	1725 bp
RefSeq ORF:	741 bp
Locus ID:	17240
UniProt ID:	P70331
Cytogenetics:	17 23.99 cM
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]