

Product datasheet for **RG236900**

MDFI (NM_001300804) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MDFI (NM_001300804) Human 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: | >RG236900 representing NM_001300804. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTACCAGGTGAGCGGCCAGCGCCCTCTGGCTGCGACGCGCCCTATGGAGCCCCAGCGCAGCCCCG
GGCCCAGCCCAGACCCTATCCCTCCTTCTGGGCTGGAGGTAGTAACAGGATCCACTCACCTGCGGAG
GCAGCACCAGAGGAGGGCTCCCTGGAGGAGCGGCAACCCCATGCCCAAGGCAATGGCCCTGGCAGC
CCCCAGGGCTGGACAGCACTGACCTCGACGTCCCACAGAAGCTGTGACATGCCAGCCTCAGGGGAAC
CCCTTGGGCTGCACCCACTTCTGCCGAATGACTCTGGCCACCCCTCAGAGCTGGGCGGCACCAGACGG
GCGGGGAATGGTCCCTGGGTGGCCCAAGGCCACCGGAAGTGCAGACACCCCATCTCTGCCAGC
CAGGGCAGCAAGAAGAGTAAGAGCAGCAGCAAATCCACCCTCCAGATCCCCCTCCAGGCACAGGAA
GACTGCTGTGTCCACTGCATCCTGCTCCTGCCTGTTCTGCGAGTTCCTGACGCTGTGCAACATCGTCTG
GACTGCGCCACCTGTGGCTCCTGCAGCTCGGAGGACTCGTGCCTCTGCTGCTGCTGTGGCTCTGGC
GAGTGTGCCGACTGCGACCTGCCCTGCGACCTGGACTGCGGCATCCTGGATGCCTGCTGCGAGTCCGGC
GACTGCCTGGAGATCTGCATGGAGTGTGTGGGCTCTGCTTCTCCTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236900
 Blue=ORF Red=Cloning site Green=Tag(s)

MYQVSGQRPSGCDAPYGAPSAAPGPAQTLSELLPLGLEVVTGSTHPAEAAPEEGSLEEAATPMPQNGPGI
 PQGLDSTDLDPVTEAVTCQPQGNPLGCTPLLNDSGHPSELGGTRRANGALGGPKAHRKLQTHPSLAS
 QGSKKSKSSKSTTSQIPLQAQEDCCVHCILSCLFCEFLTCNIVLDCATCGSCSSEDSLCCCCCGSG
 ECADCDLPCDLDCGILDACCESADCLEICMECCGLCFSS
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001300804

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).

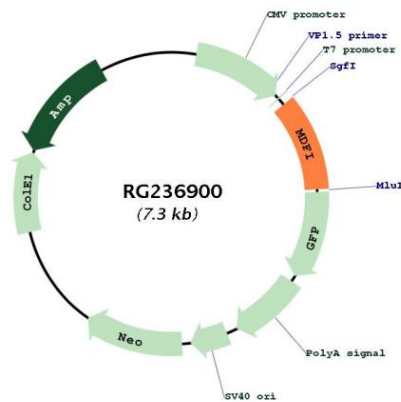
RefSeq: [NM_001300804.2](#)

RefSeq Size: 1771 bp

RefSeq ORF: 741 bp

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|--------------------------|---|
| Locus ID: | 4188 |
| UniProt ID: | Q99750 |
| Cytogenetics: | 6p21.1 |
| Protein Families: | Transcription Factors |
| MW: | 25.5 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 RG236900