

## Product datasheet for **RG229758**

### MDFIC (NM\_001166345) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MDFIC (NM\_001166345) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MDFIC  
**Synonyms:** HIC; MDFIC1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229758 representing NM\_001166345  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCGGCGGGCGAAGCCCTCGCTCCCGGGCCGTGGGGCCGCAGCGGTGGCCGAGGCGGGCGGG  
 GCCAGCTGGGCTCCACAGCCCAGGGAAAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTAC  
 CAATAGCCACTTCACACATGGAGAGATGCAAGACCAGTCCATTTGGGGAAATCCTTCGGATGGTGAACTC  
 ATTAGAACCCAACCTCAGCGCTTGCTCAGCTTCAGACTTCAGCCAGGTGCCAAGTGGTGAGGAAATAG  
 GCAAGATAAAGAACGGCCACACAGGTCTGAGCAATGGAATGGAATTCACCACGGGGCCAAACACGGATC  
 CGCAGATAATCGCAAACCTTCAGCACCTGTTTCTCAAAAATGCATAGAAAATTCAGTCCAGCTTGCT  
 GTAAACAGCGATATCAGTAAGAAGACAAAGTAAATGCTGTCTTTTCCAAAAGACAGGCTTTACCTG  
 AAGATTGTTGTGCTCACTGTATCCTGGCTTGCTGTTCTGCGAATTCCTGACCCTTTGCAACATTGTCT  
 GGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCTGTGGTACGAGATGGGGAT  
 GATTGTAAGTCCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAATCATCAGACTGCTTGG  
 AAATCTGATGGAATGCTGTGGAATTTGTTTCTTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229758 representing NM\_001166345  
 Red=Cloning site Green=Tags(s)

MSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTKDKITQATNSHFTHGEMQDQSIWGNPSDGEL  
 IRTQPQLPQLQTSQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHGSADNRKLSAPVSQKMHRKIQSSL  
 VNSDISKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQASCIGICTSEACCCCGDEMGMG  
 DCNCPDCMDCGIMDACCESSDCLCMECCGICFPS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_001166345

**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\\_001166345.1](#), [NP\\_001159817.1](#)

**RefSeq Size:** 5312 bp

**RefSeq ORF:** 741 bp

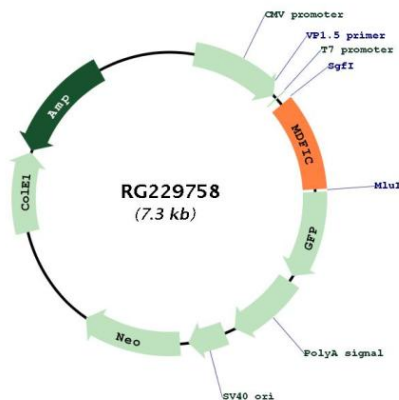
**Locus ID:** 29969

**UniProt ID:** [Q9P1T7](#)

**Cytogenetics:** 7q31.1-q31.2

**Gene Summary:** This gene product is a member of a family of proteins characterized by a specific cysteine-rich C-terminal domain, which is involved in transcriptional regulation of viral genome expression. Alternative translation initiation from an upstream non-AUG (GUG), and an in-frame, downstream AUG codon, results in the production of two isoforms, p40 and p32, respectively, which have different subcellular localization; p32 is mainly found in the cytoplasm, whereas p40 is targeted to the nucleolus. Both isoforms have transcriptional regulatory activity that is attributable to the cysteine-rich C-terminal domain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

## Product images:



Circular map for RG229758