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Product datasheet for RC229758

MDFIC (NM_001166345) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDFIC (NM_001166345) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MDFIC
Synonyms:	HIC; MDFIC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229758 representing NM_001166345
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCGGCGCGGGCGAAGCCCTCGCTCCCGGGCCCGTGGGGCCGCAGCGCGTGGCCGAGGCGGGCGGCG
GCCAGCTGGGCTCCACAGCCCAGGGAAAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTAC
CAATAGCCACTTCACACATGGAGAGATGCAAGACCAGTCCATTTGGGGAAATCCTTCGGATGGTGAACTC
ATTAGAACCCAACCTCAGCGCTTGCCTCAGCTTCAGACTTCAGCCCAGGTGCCAAGTGGTGAGGAAATAG
GCAAGATAAAGAACGGCCACACAGGTCTGAGCAATGGAAATGGAATTCACCACGGGGCCAAACACGGATC
CGCAGATAATCGCAAACTTTCAGCACCTGTTTCTCAAAAAATGCATAGAAAAATTCAGTCCAGCTTGTCT
GTAAACAGCGATATCAGTAAGAAGAGCAAAGTAAATGCTGTCTTTTCCCAAAAGACAGGCTCTTCACCTG
AAGATTGTTGTGTCCACTGTATCCTGGCTTGCTTGTTCTGCGAATTCCTGACCCTTTGCAACATTGTCCT
GGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCTGTGGTGACGAGATGGGGGAT
GATTGTAACTGCCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAATCATCAGACTGCTTGG
AAATCTGTATGGAATGCTGTGGAATTTGTTTTCCTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

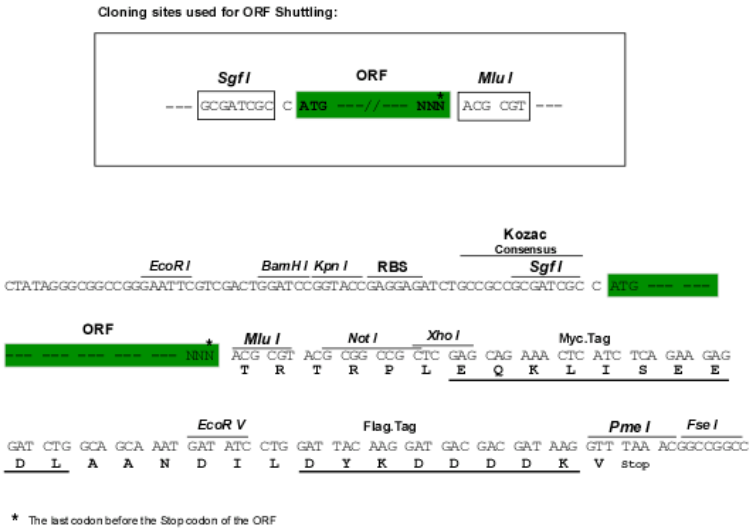
>RC229758 representing NM_001166345
Red=Cloning site Green=Tags(s)

MSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTEKDITQATNSHFTHGEMQDQSIWGNPSDGEL
IRTQPQRLPQLQTSAQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHGSADNRKLSAPVSQKMHRKIQSSLS
VNSDISKKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQASCGICTSEACCCCCGDEMGD
DCNCPCDMDCGIMDACCESSDCLEICMECCGICFPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 ORF: 741 bp

Locus ID: 29969

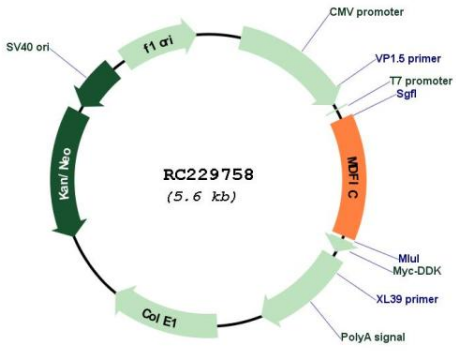
UniProt ID: Q9P1T7

Cytogenetics: 7q31.1-q31.2

MW: 26.2 kDa

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 RC229758