

Product datasheet for **RR217051**

Mx1 (NM_001271058) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mx1 (NM_001271058) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mx1
Synonyms:	IFI78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR217051 representing NM_001271058
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGAGCAGACCTCTGCATGCCGTACCAGACACCACAGAAACATCCTGATACCTCTGAAGAGAGCC
AGGCAATGGAGTCTGTGGATAACCTCTGCAGTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCAT
CGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCATCGCTGTCATCGGGGACCAG
AGTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCCCAGAGGCAGTGGTATTGTTA
CCAGGTGTCTCTGGTCTGAAATTGAAGCACTGAAGCAGGGAGAAAAATGGAGCGGCAAGGTCATTTA
TAAGGACACCGAGATTGAGATCTCACACCCTTCACTGGTAGAAAGGGAATCAATAAAGCCAGAATTG
ATTGCTGGGGAAGGTTGAAGATTAGCTCTGATCTCATTAGCTTGGAGGTTAGCTCTCCACATGTCCAG
ACCTGACTCTGATTGACCTTCTGGTATCACAAGAGTGGCTGTGGGTGACCAGCCTGCAGACATCGAACA
CAAGATCAAGAGACTTACTACTGAATACATCCAGAAACAGGAGACCATCAACCTGGTGGTGGTCCCAGC
AATGTGGACATTGCCACCACAGAGGCCCTGAAAAATGGCTCAGGAGGTGGACCCTCAAGGGGATAGAACCA
TAGGGATCTTGACCAAGCCCGATCTGGTGGACAGAGGGACTGAAGACAAGGTCGTGGATGTGGTGGCGAA
CCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGTGACGAGGACATCCAGGAGCAG
CTGAGCCTGGCTGAGGCTCTTCAAGAGGAGCAAGTCTTCTTCAAGGAACACCCCTCAATTCAGAGTCTTC
TCGAGGATGGGAAGGCCACAGTGCCTGCTTGGCAAAGAGACTGACCATGGAGCTCACCTCCCACATCTG
TAAATCGCTGCCAATATTGGAATCAAATAAATGTGAATCATCAGATTGCGAGTGAGGAGCTGCAGAAG
TACGGAGCAGACATACCAGAAGATGACAGTAAGAGGCTGTCCTTCTGATGAATAAAATCAATGTCTTCA
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CAGGGTCACTACCATGGTCAAAAATGCCTTCAAAAGTTTCAAAACAATTTTGGTGATTTTTTAAAC
CTCCACAGTACTGCCAAGTCCAAAATTTGAAGACATCAGATTTAGCCAAGAAAAAGGCCGAAAAACTGA
TCCGACTTCACTTCCAGATGGAACACATTGTCTACTGCCAGGACCAGGCTTACAAGAAAGCCTTGAAGGA
GATCAGAGAGAAGGAAGCTGAGAAAGAGAAGTCAACCTTTGGTGTCTTCAACAAAACCTCCTCGAAAG
GAGTTGACTACCACTGAGATGACCCAGCACCTGAATGCCTACTACCAGGAGTGCGGAAGGAACATTGGGA
GACAGATCCCTCTGATCATCCAGTACTCCATCCTGCAAACATTTGGGCAGGAAATGGAGAAAGCAATGCT
TCAGCTTCTACAGGACACCAGTAAGTGCAACTGGTTTCTGACTGAGCAGAGTGACAGCAGAGAGAAGAAG
AAGTTCTGAAGAGGCGGCTTTAAGGCTGGATGAGGCTCAGCGGAAGCTTGCCAAATTTCTCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217051 representing NM_001271058
Red=Cloning site Green=Tags(s)

MKEQTSACRHQTPQKHPDTSSEESQAMESVDNLCSQYEEKVRPCIDLIDSLRALGVEQDLALPAIAVIGDQ
 SSGKSSVLEALSGVALPRGSGIVTRCPLVLKQKQKQGEKWSGKVIYKDEIEIESHPSLVEREINKAQN
 IAGEGLKISSDLISLEVSSPHVPLTLIDLPGITRVAVGDPADIEHKIKRLITEYIQKQETINLVVPS
 NVDIATTEALKMAQEVDPQGDRTIGILTKPDLVDRGTEDKVVDVVRNLVCHLKKGYMIVKCRGQQDIQEQ
 LSLAEALQKEQVFFKEHPQFRVLLLEDGKATVPCLAKRLTMELTSHICKSLPILENQINVNHQIASEELQK
 YGADIPEDDSKRLSFLMKNINVFNKDILSLVQAQENISWEE SRLFTKLRNEFLAWNDYIEEHFKKTLGSS
 EKHSQMEKFESHYRGRELPGFVDYKAFENIIKKEVKALEEPALNMLHRVTTMVKNFA TKVSSNNFGDFLN
 LHSTAKSKIEDIRFSQEKEAEKLRHFQMEHIYVCQDQAYKKALKEIREKEAEKEKSTFGVFQQNSPRK
 ELTTTMTQHLNAYYQECGRNIGRQIPLIIQYSILQTFGQEMEKAMLQLLQDTSKCNWFLTEQSDSREKK
 KFLKRLLRLDEAQRKLAKFSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271058

ORF Size: 1956 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_001271058.1](#), [NP_001257987.1](#)

RefSeq Size: 3203 bp

RefSeq ORF: 1959 bp

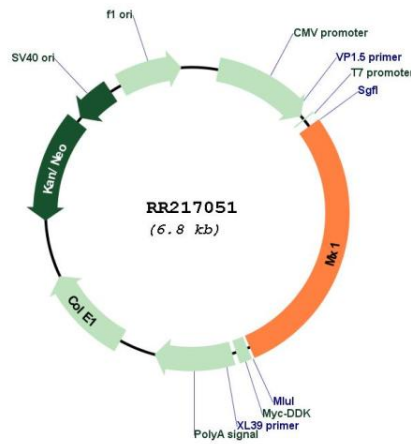
Locus ID: 24575

Cytogenetics: 11q12

MW: 74.5 kDa

Gene Summary: mouse homolog is an interferon inducible gene that confers influenza resistance to mice [RGD, Feb 2006]

Product images:



Circular map for RR217051