

## Product datasheet for **RR217052**

### **Mx1 (NM\_001271059) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx1 (NM_001271059) 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)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR217052 representing NM\_001271059  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGGAGCAGACCTCTGCATGCCGTACCAGACACCACAGAAACATCCTGATACCTCTGAAGAGAGCC  
AGGCAATGGAGTCTGTGGATAACCTCTGCAGTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCAT  
CGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCATCGCTGTCATCGGGGACCAG  
AGTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCCCAGAGGCAGTGGTATTGTTA  
CCAGGTGTCTCTGGTCTGAAATTGAAGCAACTGAAGCAGGGAGAAAAATGGAGCGGCAAGGTCATTTA  
TAAGGACACCGAGATTGAGATCTCACACCCTTCACTGGTAGAAAGGGAAATCAATAAAGCCAGAATTG  
ATTGCTGGGGAAGGTTGAAGATTAGCTCTGATCTCATTAGCTTGGAGGTTAGCTCTCCACATGTCCAG  
ACCTGACTCTGATTGACCTTCTGGTATCACAGAGTGGCTGTGGGTGACCAGCCTGCAGACATCGAACA  
CAAGATCAAGAGACTTACTACTGAATACATCCAGAAACAGGAGACCATCAACCTGGTGGTGGTCCCAGC  
AATGTGGACATTGCCACCACAGAGGCCCTGAAAAATGGCTCAGGAGGTGGACCCTCAAGGGGATAGAACCA  
TAGGGATCTTGACCAAGCCCGATCTGGTGGACAGAGGGACTGAAGACAAGGTCGTGGATGTGGTGGCGAA  
CCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGTGACGAGGACATCCAGGAGCAG  
CTGAGCCTGGCTGAGGCTCTTCAAGAGGAGCAAGTCTTCTTCAAGGAACACCCCTCAATTCAGAGTCTTC  
TCGAGGATGGGAAGGCCACAGTGCCTGCTTGGCAAAGAGACTGACCATGGAGCTCACCTCCCACATCTG  
TAAATCGCTGCCAATATTGGAATCAAATAAATGTGAATCATCAGATTGCGAGTGAGGAGCTGCAGAAG  
TACGGAGCAGACATACCAGAAGATGACAGTAAGAGGCTGTCCTTCTGATGAATAAAATCAATGTCTTCA  
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GAGAAACACAGCCAGATGAAAAATTTGAAAGTCATTATCGTGGCCGGAACTGCCAGGTTTGTGGACT  
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CAGGGTCACTACCATGGTCAAAAATGCCTTCAAAAGGTTTCAAAACAATTTTGGTGATTTTTTAAAC  
CTCCACAGTACTGCCAAGTCCAAAATTTGAAGACATCAGATTTAGCCAAGAAAAAGAGCCGAAAAACTGA  
TCCGACTTCACTTCCAGATGGAACACATTGTCTACTGCCAGGACCAGGCTTACAAGAAAGCCTTGAAGGA  
GATCAGAGAGAAGGAAGCTGAGAAAGAGAAGTCAACCTTTGGTGTCTTCAACAAAACCTCCTCGAAAG  
GAGTTGACTACCACTGAGATGACCCAGCACCTGAATGCCTACTACCAGGAGTGCGGAAGGAACATTGGGA  
GACAGATCCCTCTGATCATCCAGTACTCCATCCTGCAAACATTTGGGCAGGAAATGGAGAAAGCAATGCT  
TCAGCTTCTACAGGACACCAGTAAGTGCAACTGGTTTCTGACTGAGCAGAGTGACAGCAGAGAGAAGAAG  
AAGTTCTGAAGAGGCGGCTTTAAGGCTGGATGAGGCTCAGCGGAAGCTTGCCAAATTTCTCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217052 representing NM\_001271059  
Red=Cloning site Green=Tags(s)

```
MKEQTSACRHQTPQKHPDTSSESQAMESVDNLCSQYEEKVRPCIDLIDSLRALGVEQDLALPAIAVIGDQ
SSGKSSVLEALSGVALPRGSGIVTRCPLVLKQKQGEKWSGKVIYKDEIEIESHPSLVEREINKAQNLI
IAGEGLKISSDLISLEVSSPHVPDLTLIDLPGITRVAVGDPADIEHKIKRLITEYIQKQETINLVVPS
NVDIATTEALKMAQEVDPQGDRTIGILTKPDLVDRGTEDKVVDVVRNLVCHLKKGYMIVKCRGQQDIQEQ
LSLAEALQKEQVFFKEHPQFRVLLLEDGKATVPCLAKRLTMELTSHICKSLPILENQINVNHQIASEELQK
YGADIPEDDSKRLSFLMNKINVFNKDILSLVQAQENISWEE SRLFTKLRNEFLAWNNDYIEEHFKKTLGSS
EKHSQMEKFESHYRGRELPGFVDYKAFENIIKKEVKALEEPALNMLHRVTTMVKNFA TKVSSNNGDFLN
LHSTAKSKIEDIRFSQEKEAEKLRHFQMEHIYVCQDQAYKKALKEIREKEAEKEKSTFGVFQQNSPRK
ELTTTMTQHLNAYYQECGRNIGRQIPLIIQYSILQTFGQEMEKAMLQLLQDTSKCNWFLTEQSDSREKK
KFLKRLLRLDEAQRKLAKFSN
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271059

**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\\_001271059.1](#), [NP\\_001257988.1](#)

**RefSeq Size:** 3247 bp

**RefSeq ORF:** 1959 bp

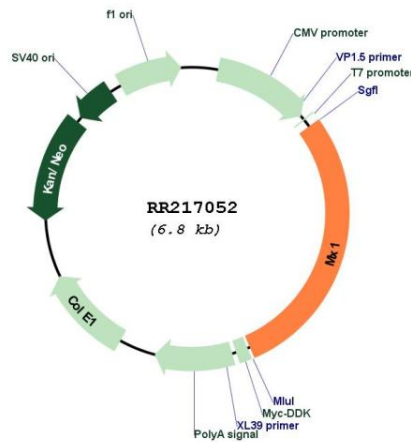
**Locus ID:** 24575

**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 RR217052