

## Product datasheet for **RR217055**

### **Mx1 (NM\_001271062) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx1 (NM_001271062) 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:**

>RR217055 representing NM\_001271062  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGAGCAGACCTCTGCATGCCGTACCAGACACCACAGAAACATCCTGATACCTCTGAAGAGAGCC  
 AGGCAATGGAGTCTGTGGATAACCTCTGCAGTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCAT  
 CGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCATCGCTGTCATCGGGGACCAG  
 AGTTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCCCAGAGGCAGTGGTATTGTTA  
 CCAGGTGTCTCTGGTCTGAAATTGAAGCAACTGAAGCAGGGAGAAAAATGGAGCGGCAAGGTCATTTA  
 TAAGGACACCGAGATTGAGATCTCACACCCTTCACTGGTAGAAAGGGAAATCAATAAAGCCAGAATTG  
 ATTGCTGGGGAAGGTTGAAGATTAGCTCTGATCTCATTAGCTTGGAGGTTAGCTCTCCACATGTCCAG  
 ACCTGACTCTGATTGACCTTCTGGTATCACAAGAGTGGCTGTGGGTGACCAGCCTGCAGACATCGAACA  
 CAAGATCAAGAGACTTACTACTGAATACATCCAGAAACAGGAGACCATCAACCTGGTGGTGGTCCCAGC  
 AATGTGGACATTGCCACCACAGAGGCCCTGAAAAATGGCTCAGGAGGTGGACCCTCAAGGGGATAGAACCA  
 TAGGGATCTTGACCAAGCCCGATCTGGTGGACAGAGGGACTGAAGACAAGGTCGTGGATGTGGTGGCGAA  
 CCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGTGACGAGGACATCCAGGAGCAG  
 CTGAGCCTGGCTGAGGCTCTTCAAGAGGAGCAAGTCTTCTTCAAGGAACACCCCTCAATTCAGAGTCTTC  
 TCGAGGATGGGAAGGCCACAGTGCCTGCTTGGCAAAGAGACTGACCATGGAGCTCACCTCCCACATCTG  
 TAAATCGCTGCCAATATTGGAATCAAATAAATGTGAATCATCAGATTGCGAGTGAGGAGCTGCAGAAG  
 TACGGAGCAGACATACCAGAAGATGACAGTAAGAGGCTGTCCTTCTGATGAATAAAATCAATGTCTTCA  
 ATAAGGATATCCTAAGTTTGGTACAAGCACAAGAAAACATATCATGGGAAGAAAGCCGGCTGTTCAACCA  
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 CAGGGTCACTACCATGGTCAAAAATGCCTTCAAAAGTTTCAAAACAATTTTGGTGATTTTTTAAAC  
 CTCCACAGTACTGCCAAGTCCAAAATTTGAAGACATCAGATTTAGCCAAGAAAAAGAGCCGAAAAACTGA  
 TCCGACTTCACTTCCAGATGGAACACATTGTCTACTGCCAGGACCAGGCTTACAAGAAAGCCTTGAAGGA  
 GATCAGAGAGAAGGAAGCTGAGAAAGAGAAGTCAACCTTTGGTGTCTTTCAAAAACTCTCCTCGAAAG  
 GAGTTGACTACCACTGAGATGACCCAGCACCTGAATGCCTACTACCAGGAGTGCGGAAGGAACATTGGGA  
 GACAGATCCCTCTGATCATCCAGTACTCCATCCTGCAAACATTTGGGCAGGAAATGGAGAAAGCAATGCT  
 TCAGCTTCTACAGGACACCAGTAAGTGCAACTGGTTTCTGACTGAGCAGAGTGACAGCAGAGAGAAGAAG  
 AAGTTCTGAAGAGGCGGCTTTAAGGCTGGATGAGGCTCAGCGGAAGCTTGCCAAATTTCTCCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217055 representing NM\_001271062  
Red=Cloning site Green=Tags(s)

```
MKEQTSACRHQTPQKHPDTSSEESQAMESVDNLCSQYEEKVRPCIDLIDSLRALGVEQDLALPAIAVIGDQ
SSGKSSVLEALSGVALPRGSGIVTRCPLVLKQKQKQGEKWSGKVIYKDEIEIESHPSLVEREINKAQNLI
IAGEGLKISSDLISLEVSSPHVPDLTLIDLPGITRVAVGDPADIEHKIKRLITEYIQKQETINLVVPS
NVDIATTEALKMAQEVDPPQGDRTIGILTKPDLVDRGTEDKVVDVVRNLVCHLKKGYMIVKCRGQQDIQEQ
LSLAEALQKEQVFFKEHPQFRVLLLEDGKATVPCLAKRLTMELTSHICKSLPILENQINVNHQIASEELQK
YGADIPEDDSKRLSFLMKNKINVFNKDILSLVQAQENISWEE SRLFTKLRNEFLAWNNDYIEEHFKKTLGSS
EKHSQMEKFESHYRGRELPGFVDYKAFENIIKKEVKALEEPALNMLHRVTTMVKNFA TKVSSNNFGDFLN
LHSTAKSKIEDIRFSQEKEAEKLRHFQMEHIYVCQDQAYKKALKEIREKEAEKEKSTFGVFQQNSPRK
ELTTTMTQHLNAYYQECGRNIGRQIPLIIQYSILQTFGQEMEKAMLQLLQDTSKCNWFLTEQSDSREKK
KFLKRLLRLDEAQRKLAKFSN
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271062

**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\\_001271062.1](#), [NP\\_001257991.1](#)

**RefSeq Size:** 3281 bp

**RefSeq ORF:** 1959 bp

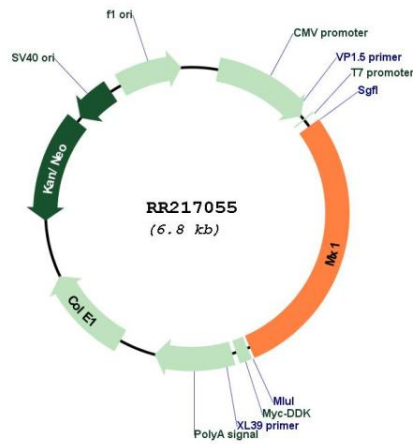
**Locus ID:** 24575

**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 RR217055