

## Product datasheet for **RR206358**

### **Mx1 (NM\_173096) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx1 (NM_173096) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mx1
Synonyms:	IFI78
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR206358 representing NM\_173096  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGGAGCAGACCTCTGCATGCCGTACCAGACACCACAGAAACATCCTGATACCTCTGAAGAGAGCC  
AGGCAATGGAGTCTGTGGATAACCTCTGCAGTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCAT  
CGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCATCGCTGTCATCGGGACCAG  
AGTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCCCAGAGGCAGTGGTATTGTTA  
CCAGGTGTCTCTGGTCTGAAATTGAAGCACTGAAGCAGGGAGAAAAATGGAGCGCAAGGTCATTTA  
TAAGGACACCGAGATTGAGATCTCACACCCTTCACTGGTAGAAAGGGAATCAATAAAGCCAGAATTG  
ATTGCTGGGGAAGGTTGAAGATTAGCTCTGATCTCATTAGCTTGGAGGTTAGCTCTCCACATGTCCAG  
ACCTGACTCTGATTGACCTTCTGGTATCACAGAGTGGCTGTGGGTGACCAGCCTGCAGACATCGAACA  
CAAGATCAAGAGACTTACTACTGAATACATCCAGAAACAGGAGACCATCAACCTGGTGGTGGTCCCAGC  
AATGTGGACATTGCCACCACAGAGGCCCTGAAAAATGGCTCAGGAGGTGGACCCTCAAGGGGATAGAACCA  
TAGGGATCTTGACCAAGCCCGATCTGGTGGACAGAGGGACTGAAGACAAGGTCGTGGATGTGGTGGCGAA  
CCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGTGACGAGGACATCCAGGAGCAG  
CTGAGCCTGGCTGAGGCTCTTCAAGAGGAGCAAGTCTTCTTCAAGGAACACCCCTCAATTCAGAGTTCTTC  
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TAAATCGCTGCCAATATTGAAAAATCAAATAAATGTGAATCATCAGATTGCGAGTGAGGAGCTGCAGAAG  
TACGGAGCAGACATACCAGAAGATGACAGTAAGAGGCTGTCCTTCTGATGAATAAAATCAATGTCTTCA  
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TCCGACTTCACTTCCAGATGGAACACATTGTCTACTGCCAGGACCAGGCTTACAAGAAAGCCTTGAAGGA  
GATCAGAGAGAAGGAAGCTGAGAAAGAGAAGTCAACCTTTGGTGTCTTCAACAAAACCTCCTCGAAAAG  
GAGTTGACTACCACTGAGATGACCCAGCACCTGAATGCCTACTACCAGGAGTGCGGAAGGAACATTGGGA  
GACAGATCCCTCTGATCATCCAGTACTCCATCCTGCAAACATTTGGGCAGGAAATGGAGAAAGCAATGCT  
TCAGCTTCTACAGGACACCAGTAAGTGCAACTGGTTTCTGACTGAGCAGAGTGACAGCAGAGAGAAGAAG  
AAGTTCTGAAGAGGCGGCTTTAAGGCTGGATGAGGCTCAGCGGAAGCTTGCCAAATTTCTCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR206358 representing NM\_173096  
 Red=Cloning site Green=Tags(s)

MKEQTSACRHQTPQKHPDTSSESQAMESVDNLCSQYEEKVRPCIDLIDSLRALGVEQDLALPAIAVIGDQ  
 SSGKSSVLEALSGVALPRGSGIVTRCPLVLKQKQKQGEKWSGKVIYKDEIEIESHPSLVEREINKAONL  
 IAGEGLKISSDLISLEVSSPHVPDLTLIDLPGITRVAVGDPADIEHKIKRLITEYIQKQETINLVVPS  
 NVDIATTEALKMAQEVDPQGDRTIGILTKPDLVDRGTEDKVVVVRNLVCHLKKGYMIVKCRGQQDIQEQ  
 LSLAEALQKEQVFFKEHPQFRVLLEDGKATVPCLAKRLTMELTSHICKSLPILENQINVNHQIASEELQK  
 YGADIPEDDSKRLSFLMKNINVFNKDILSLVQAQENISWEE SRLFTKLRNEFLAWNDYIEEHFKKTLGSS  
 EKHSQMEKFESHYRGRELPGFVDYKAFENIIKKEVKALEEPALNMLHRVTTMVKNFA TKVSSNNFGDFLN  
 LHSTAKSKIEDIRFSQEKEAEKLRHFQMEHIYVCQDQAYKKALKEIREKEAEKEKSTFGVFQQNSPRK  
 ELTTTEMTQHLNAYYQECGRNIGRQIPLIIQYSILQTFGQEMEKAMLQLLQDTSKCNWFLTEQSDSREKK  
 KFLKRLLRLDEAQRKLAKFSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

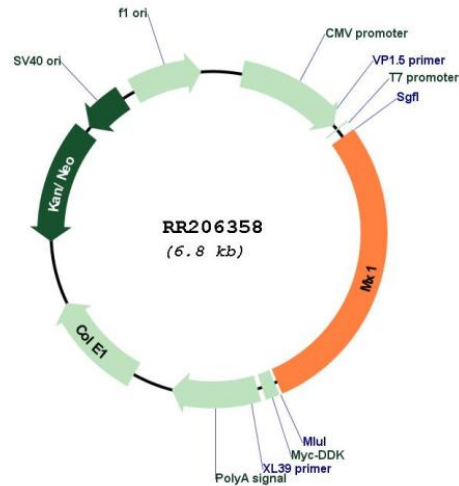
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_173096

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\\_173096.3](#), [NP\\_775119.2](#)

RefSeq Size: 3361 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]