

## Product datasheet for **RN217052**

### **Mx1 (NM\_001271059) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx1 (NM_001271059) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mx1
Synonyms:	IFI78
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217052 representing NM\_001271059  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGGAGCAGACCTCTGCATGCCGTACCAGACACCACAGAAACATCCTGATACCTCTGAAGAGAGCC  
 AGGCAATGGAGTCTGTGGATAACCTCTGCAGTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCAT  
 CGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCATCGCTGTCATCGGGGACCAG  
 AGTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCCCAGAGGCAGTGGTATTGTTA  
 CCAGGTGTCTCTGGTCTGAAATTGAAGCACTGAAGCAGGGAGAAAAATGGAGCGCAAGGTCATTTA  
 TAAGGACACCGAGATTGAGATCTCACACCCTTCACTGGTAGAAAGGGAATCAATAAAGCCAGAATTG  
 ATTGCTGGGAAGGGTTGAAGATTAGCTCTGATCTCATTAGCTTGGAGGTAGCTCTCCACATGTCCAG  
 ACCTGACTCTGATTGACCTTCTGGTATCACAGAGTGGCTGTGGGTGACCAGCCTGCAGACATCGAACA  
 CAAGATCAAGAGACTTACTACTGAATACATCCAGAAACAGGAGACCATCAACCTGGTGGTGGTCCCAGC  
 AATGTGGACATTGCCACCACAGAGGCCCTGAAAAATGGCTCAGGAGGTGGACCCTCAAGGGGATAGAACA  
 TAGGGATCTTGACCAAGCCCGATCTGGTGGACAGAGGGACTGAAGACAAGGTCGTGGATGTGGTGGCGAA  
 CCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGTGACGAGGACATCCAGGAGCAG  
 CTGAGCCTGGCTGAGGCTCTTCAAGAGGAGCAAGTCTTCTTCAAGGAACACCCCTCAATTCAGAGTCTTC  
 TCGAGGATGGGAAGGCCACAGTGCCTGCTTGGCAAAGAGACTGACCATGGAGCTCACCTCCCACATCTG  
 TAAATCGCTGCCAATATTGAAAAATCAAATAAATGTGAATCATCAGATTGCGAGTGAGGAGCTGCAGAAG  
 TACGGAGCAGACATACCAGAAGATGACAGTAAGAGGCTGTCCTTCTGATGAATAAAATCAATGTCTTCA  
 ATAAGGATACCTAAGTTTGGTACAAGCACAAGAAAAACATATGGAAGAAAGCCGGCTGTTCCACCA  
 ACTGCGAAATGAGTTTCTTGGCTTGAATGATTATATTGAGGAACATTTCAAAAAAACCCCTAGGTTCTTCT  
 GAGAAACACAGCCAGATGAAAAATTTGAAAGTCATTATCGTGGCCGGAACTGCCAGGGTTTGTGGACT  
 ATAAGGCATTTGAGAACATTATCAAGAAGGAAGTCAAGGCCCTGGAAGAACCCGCTCTGAACATGCTGCA  
 CAGGGTCACTACCATGGTCAAAAATGCCTTCAAAAGGTTTCAAAACAATTTTGGTATTTTTTAAAC  
 CTCCACAGTACTGCAAGTCCAAAATTTGAAGACATCAGATTTAGCCAAGAAAAAGAAGCCGAAAAACTGA  
 TCCGACTTCACTTCCAGATGGAACACATTGTCTACTGCCAGGACCAGGCTTACAAGAAAGCCTTGAAGGA  
 GATCAGAGAGAAGGAAGCTGAGAAAGAGAAGTCAACCTTTGGTGTCTTTCAAAAACTCTCCTCGAAAG  
 GAGTTGACTACCACTGAGATGACCCAGCACCTGAATGCCTACTACCAGGAGTGCAGGAAGGAACATTGGGA  
 GACAGATCCCTCTGATCATCCAGTACTCCTCCTGCAAACATTTGGGCAGGAAATGGAGAAAGCAATGCT  
 TCAGCTTCTACAGGACACCAGTAAGTGCAACTGGTTCTGACTGAGCAGAGTGACAGCAGAGAGAAGAAG  
 AAGTTCCTGAAGAGGCGGCTTTAAGGCTGGATGAGGCTCAGCGGAAGCTTGCCAAATCTCCAAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271059

**Insert Size:** 1959 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001271059.1, NP_001257988.1</u>
<b>RefSeq Size:</b>	3247 bp
<b>RefSeq ORF:</b>	1959 bp
<b>Locus ID:</b>	24575
<b>Cytogenetics:</b>	11q12
<b>Gene Summary:</b>	<p>mouse homolog is an interferon inducible gene that confers influenza resistance to mice [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All six variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>