

## Product datasheet for **RC238625**

### **MX1 (NM\_001282920) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MX1 (NM_001282920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MX1
Synonyms:	IFI-78K; IFI78; IncMX1-215; MX; MxA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238625 representing NM\_001282920  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTTGTTTCCGAAGTGGACATCGAAAAGCTGATCCAGCTGCTGCATCCCACCCTCTATTACTGAATG  
 GAGATGCTACTGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAACAACTGTGCAGCCAGTATGAGGA  
 GAAGGTGCGCCCTGCATCGACCTCATTGACTCCCTGCGGGCTCTAGGTGTGGAGCAGGACTGGCCCTG  
 CCAGCCATCGCCGTCATCGGGGACCAGAGCTCGGGCAAGAGCTCCGTGTTGGAGGCACTGTCAGGAGTTG  
 CCCTTCCAGAGGCAGCGGGATCGTGACCAGATGCCCGCTGGTGTGAACTGAAGAACTTGTGAACGA  
 AGATAAGTGGAGAGGCAAGGTCAAGTACCAGGACTACGAGATTGAGATTCGGATGCTTCAGAGGTAGAA  
 AAGGAAATTAATAAGGCCAGAATGCCATCGCCGGGAAGGAATGGGAATCAGTCATGAGCTAATCACCC  
 TGGAGATCAGCTCCGAGATGTCCGGATCTGACTCTAATAGACCTTCTGGCATAACCAGAGTGGCTGT  
 GGGCAATCAGCTGCTGACATTGGGTATAAGATCAAGACTCATCAAGAAGTACATCCAGAGGCAGGAG  
 ACAATCAGCCTGGTGGTGGTCCCAAGTAATGTGGACATCGCCACCACAGAGGCTCTCAGCATGGCCAGG  
 AGGTGGACCCCGAGGGAGACAGGACCATCGAATCTTGACGAAGCCTGATCTGGTGGACAAGGAACTGA  
 AGACAAGTGTGGACGTGGTGCAGAACCTCGTGTCCACCTGAAGAAGGTTACATGATTGTCAAGTGC  
 CGGGGCCAGCAGGAGATCCAGGACCAGCTGAGCCTGTCCGAAGCCCTGCAGAGAGAGAAGATCTTCTTTG  
 AGAACCACCCATATTTAGGGATCTGCTGGAGGAAGGAAAGGCCACGGTTCCTGCCTGGCAGAAAACT  
 TACCAGCGAGCTCATCACATATCTGTAATCTCTGCCCTGTTAGAAAATCAAATCAAGGAGACTCAC  
 CAGAGAATAACAGAGGAGCTACAAAAGTATGGTGTGACATACCGGAAGACGAAAAATGAAAAATGTTCT  
 TCCTGATAGATAAAGTTAATGCCTTTAATCAGGACATCACTGCTCATGCAAGGAGGAACTGTAGG  
 GGAGGAAGACATTTCGGCTGTTTACCAGACTCCGACACGAGTCCACAAATGGAGTACAATAATTGAAAA  
 AATTTTCAAGAAGGAGGCCAGCAAGCGCATCTCCAGCCACATCCCTTTGATCATCCAGTTCTTCATGCTC  
 CAGACGTACGGCCAGCAGCTTCAAGGCCATGCTGCAGCTCCTGCAGGACAAGGACACCTACAGCTGGC  
 TCCTGAAGGAGCGGAGCGACACCAGCGACAAGCGGAAGTTCCTGAAGGAGCGGCTTGACGGCTGACGCA  
 GGCTCGGCGCGGCTTGCCAGTTCGCCGTTAACACACTCTGTCCAGCCCCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238625 representing NM\_001282920  
 Red=Cloning site Green=Tags(s)

MVVSEVDIAKADPAAASHPLLLNGDATVAQKNPGSVAENNLCSQYEEKVRPCIDLIDSLRALGVEQDLAL  
 PAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKLVNEDKWRGKVSQDYIEIISDASEVE  
 KEINKAQNAIAGEGMGISHELITLIESSRDVPLTLIDLPGITRVAVGNQPADIGYKIKTLIKKYIQRQE  
 TISLVVVPNSVDIATTEAL SMAQEVDPEGDRITIGILTKPDLVDKGTEDKVVDVVRNLVFHLKKGYMIVKC  
 RGQQEIQDQLSLSEALQREKIFFENHPYFRDLLEEGKATVPCLAEKLTSELITHICKSLPLENQIKETH  
 QRITEELQKYGVDPEDENEKMFFLIDKVNAFNQDITALMQGEETVGEEDIRLFTLRHEFHKWTIIEN  
 NFQEGGQQAHLQPHFPDHPVLHAPDVRPAASEGHAAAPAGQGHLQLAPEGAERHQRAEVPEGAECTADA  
 GSAPACVPRLTTLCPAP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

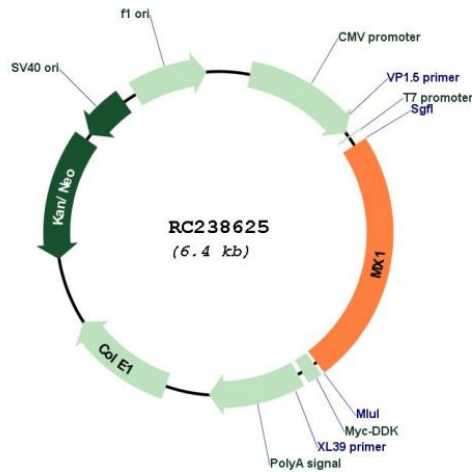
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001282920

**ORF Size:** 1524 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\\_001282920.1](#), [NP\\_001269849.1](#)

**RefSeq Size:** 1998 bp

**RefSeq ORF:** 1527 bp

**Locus ID:** 4599

**UniProt ID:** [P20591](#)

**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome

**MW:** 56.1 kDa

**Gene Summary:** This gene encodes a guanosine triphosphate (GTP)-metabolizing protein that participates in the cellular antiviral response. The encoded protein is induced by type I and type II interferons and antagonizes the replication process of several different RNA and DNA viruses. There is a related gene located adjacent to this gene on chromosome 21, and there are multiple pseudogenes located in a cluster on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]