

## Product datasheet for **SC325263**

### **MX1 (NM\_001144925) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MX1 (NM_001144925) Human Untagged Clone
Tag:	Tag Free
Symbol:	MX1
Synonyms:	IFI-78K; IFI78; IncMX1-215; MX; MxA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

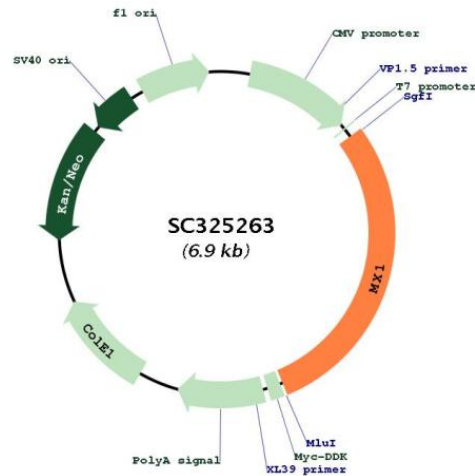


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Fully Sequenced ORF: >SC325263 representing NM\_001144925.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTTGTTTCCGAAGTGGACATCGCAAAGCTGATCCAGCTGCTGCATCCCACCCTCTATTACTGAAT
GGAGATGCTACTGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAACAACCTGTGCAGCCAGTATGAG
GAGAAGGTGCGCCCTGCATCGACCTATTGACTCCCTGCGGGCTCTAGGTGTGGAGCAGGACCTGGCC
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GTTGCCCTTCCCAGAGGCAGCGGATCGTGACCAGATGCCCGCTGGTGTGAAACTGAAGAACTTGTG
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GAGCGGCTTGACGGCTGACGCAGGCTCGGCGCCGGCTTGCCAGTTCCTCCGGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001144925

**Insert Size:** 1989 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001144925.2](#)

**RefSeq Size:** 3444 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 4599

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

**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome

**MW:** 75.5 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]  
Transcript Variant: This variant (1, also known as T0) represents the longest transcript and encodes isoform a. Variants 1, 2, and 3 encode the same isoform (a).