

Product datasheet for **RG227878**

MX1 (NM_001144925) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MX1 (NM_001144925) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MX1
Synonyms:	IFI-78K; IFI78; IncMX1-215; MX; MxA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG227878 representing NM_001144925
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGTTCGAAAGTGGACATCGAAAAGCTGATCCAGCTGCTGCATCCCACCCTCTATTACTGAATG
 GAGATGCTACTGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAACAACCTGTGCAGCCAGTATGAGGA
 GAAGGTGCGCCCTGCATCGACCTCATTGACTCCCTGCGGGCTCTAGGTGTGGAGCAGGACCTGGCCCTG
 CCAGCCATCGCCGTCATCGGGGACCAGAGCTCGGGCAAGAGCTCCGTGTTGGAGGCACTGTCAGGAGTTG
 CCCTTCCAGAGGCAGCGGGATCGTGACCAGATGCCCGCTGGTGTGAACTGAAGAACTTGTGAACGA
 AGATAAGTGGAGAGGCAAGGTCAAGTACCAGGACTACGAGATTGAGATTCGGATGCTTCAGAGGTAGAA
 AAGGAAATTAATAAGGCCAGAATGCCATCGCCGGGAAGGAATGGGAATCAGTCATGAGCTAATCACCC
 TGGAGATCAGCTCCGAGATGTCCGGATCTGACTCTAATAGACCTTCTGGCATAACCAGAGTGGCTGT
 GGGCAATCAGCTGCTGACATTGGGTATAAGATCAAGACTCATCAAGAAGTACATCCAGAGGCAGGAG
 ACAATCAGCCTGGTGGTGGTCCCGAGTAATGTGGACATTGCCACCACAGAGGCTCTCAGCATGGCCAGG
 AGGTGGACCCCGAGGGAGACAGGACCATCGAATCTTGACGAAGCCTGATCTGGTGGACAAGGAACTGA
 AGACAAGTGTGGACGTGGTGCAGAACCTCGTGTCCACCTGAAGAAGGTTACATGATTGTCAAGTGC
 CGGGGCCAGCAGGAGATCCAGGACCAGCTGAGCCTGTCCGAAGCCCTGCAGAGAGAGAAGATCTTCTTTG
 AGAACCACCCATATTTAGGGATCTGCTGGAGGAAGGAAAGGCCACGGTTCCTGCTGGCAGAAAACT
 TACCAGCGAGCTCATCACATATCTGTAATCTCTGCCCTGTTAGAAAATCAAATCAAGGAGACTCAC
 CAGAGAATAACAGAGGAGCTACAAAAGTATGGTGTGACATACCGGAAGACGAAAATGAAAAATGTTCT
 TCCTGATAGATAAAATTAATGCCTTTAATCAGGACATCACTGCTCTCATGCAAGGAGAGGAACTGTAGG
 GGAGGAAGACATTCGGCTGTTTACCAGACTCCGACACGAGTTCACAAAATGGAGTACAATAATTGAAAAC
 AATTTTCAAGAAGGCCATAAAATTTTGAGTAGAAAAATCCAGAAAATTTGAAAATCAGTATCGTGGTAGAG
 AGCTGCCAGGCTTTGTGAATTACAGGACATTTGAGACAATCGTGAACAGCAAATCAAGGCACTGGAAGA
 GCCGGCTGTGGATATGCTACACACCGTGACGGATATGGTCCGGCTTGCTTTCACAGATGTTTCGATAAAA
 AATTTTGAAGAGTTTTTTAACCTCCACAGAACCAGCAAGTCCAAAATGAAGACATTAGAGCAGAACAAG
 AGAGAGAAGGTGAGAAGCTGATCCGCCTCCACTCCAGATGGAACAGATTGTCTACTGCCAGGACCAGGT
 ATACAGGGGTGCATTGCAGAAGGTGAGAGAGAAGGAGCTGGAAGAAGAAAAGAAGAAGAAATCCTGGGAT
 TTTGGGGCTTTCCAATCCAGCTCGCAACAGACTTTCCATGGAGGAGATCTTTCAGCACCTGATGGCCT
 ATCACCAGGAGGCCAGCAAGCGCATCTCCAGCCACATCCCTTTGATCATCCAGTTCTTCATGCTCCAGAC
 GTACGGCCAGCAGCTTCAGAAGGCCATGCTGCAGCTCCTGCAGGACAAGGACACCTACAGCTGGCTCCTG
 AAGGAGCGGAGCGACACCAGCGACAAGCGGAAGTTCCTGAAGGAGCGGCTTGACGGCTGACGCAGGCTC
 GCGCGCGCTTGCCAGTTCCCGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227878 representing NM_001144925
 Red=Cloning site Green=Tags(s)

```
MVYSEVDIAKADPAAASHPLLLNGDATVAQKNPGSVAENNLCSQYEEKVRPCIDLIDSLRALGVEQDLAL
PAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKLVNEDKWRGKVSQDYIEISDASEVE
KEINKAQNAIAGEGMGISHELITLIESSRDVPLTLIDLPGITRVAVGNQPADIGYKIKTLIKKYIQRQE
TISLVVVPSNVDIATTEAL SMAQEVDPEGDRTIGILT KPDLDVKGTEDKVVVDVVRNLVFHLKKGYMIVKC
RGQQEIQDQLSLSEALQREKIFFENHPYFRDLL EEGKATVPCLAEKLTSELITHICKSLPLENQIKETH
QRITEELQKYGV DIPEDENEKMFFLIDKINAFNQDIT ALMQGEETVGEEDIRLFTRLRHEFHKWTIIEN
NFQEGHKILSRKI QKFENQYRGRELPGFVNYRTFETIVKQ QIKALEEPAVDMLHTVDTMVRLAFTDVSIK
NFEFFNLHRTAKSKIEDIRAEQEREKEK LIRLHFQMEQIVY CQDQVYRGALQKVREKELEEEKKKSWD
FGAFQSSSATDSSMEEIFQHLMAYHQEASKRIS SHIPLIIQFFMLQTYGQQ LQKAMLQLLQDKDTYSWLL
KERSDTS DKRFLKERLARLTQARRRLAQFPG
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

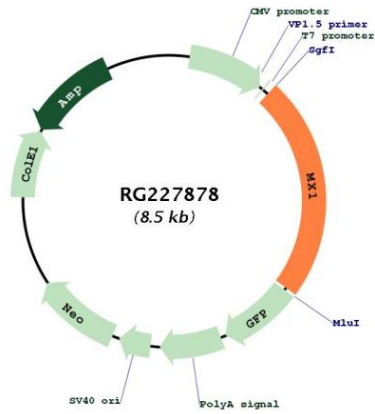


ACCN: NM_001144925

ORF Size: 1986 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_001144925.1, NP_001138397.1</p>
RefSeq Size:	<p>3409 bp</p>
RefSeq ORF:	<p>1989 bp</p>
Locus ID:	<p>4599</p>
UniProt ID:	<p>P20591</p>
Cytogenetics:	<p>21q22.3</p>
Protein Families:	<p>Druggable Genome</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG227878