

## Product datasheet for **SC118603**

### **MX1 (NM\_002462) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MX1 (NM_002462) Human Untagged Clone
Tag:	Tag Free
Symbol:	MX1
Synonyms:	IFI-78K; IFI78; IncMX1-215; MX; MxA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC118603 sequence for NM\_002462 edited (data generated by NextGen Sequencing)

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ATGGTTGTTTCCGAAGTGGACATCGCAAAAGCTGATCCAGCTGCTGCATCCCACCCTCTA
TTACTGAATGGAGATGCTACTGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAACAAC
CTGTGCAGCCAGTATGAGGAGAAGGTGCGCCCTGCATCGACCTATTGACTCCCTGCGG
GCTCTAGTGTGGAGCAGGACCTGGCCCTGCCAGCCATCGCCGTCATCGGGGACCAGAGC
TCGGCAAGAGCTCCGTGTTGGAGGCACTGTGAGGAGTTGCCCTTCCCAGAGGCAGCGGG
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AGAGGCAAGGTCAGTTACCAGGACTACGAGATTGAGATTCGGATGCTTCAGAGGTAGAA
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CTAATCACCTGGAGATCAGCTCCCAGATGTCCCGGATCTGACTCTAATAGACCTTCT
GGCATAACCAGAGTGGCTGTGGCAATCAGCCTGCTGACATTGGGTATAAGATCAAGACA
CTCATCAAGAAGTACATCCAGAGGCAGGAGACAATCAGCCTGGTGGTGGTCCCCAGTAAT
GTGGACATTGCCACCACAGAGGCTCTCAGCATGGCCAGGAGGTGGACCCCGAGGGAGAC
AGGACCATCGGAATCTTGACGAAGCCTGATCTGGTGGACAAAGGAACTGAAGACAAGTT
GTGGACGTGGTGCAGAACCTCGTGTCCACCTGAAGAAGGTTACATGATTGTCAAGTGC
CGGGGCCAGCAGGAGATCCAGGACCAGCTGAGCCTGTCCGAAGCCCTGCAGAGAGAGAAG
ATCTTCTTTGAGAACCACCCATATTTTCAGGGATCTGCTGGAGGAAGGAAAGGCCACGGTT
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CTGTTAGAAAAACAATCAAGGAGACTCACAGAGAATAACAGAGGAGCTACAAAAGTAT
GGTGTGACATACCGGAAGACGAAAAATGAAAAATGTTCTTCTGATAGATAAAATTAAT
GCCTTTAATCAGGACATCACTGCTCTCATGCAAGGAGAGGAACTGTAGGGGAGGAAGAC
AATTTTCAAGAAGGCCATAAAATTTTGAGTAGAAAAATCCAGAAATTTGAAAAATCAGTAT
CGTGGTAGAGAGCTGCCAGGCTTTGTGAATTACAGGACATTTGAGACAATCGTGAACAG
CAAATCAAGGCACTGGAAGAGCCGGCTGTGGATATGCTACACACCGTGACGGATATGGTC
CGGCTTGCTTTCACAGATGTTTCGATAAAAAATTTGAAGAGTTTTTTAACCTCCACAGA
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GCATTGCAGAAGGTCAGAGAGAAGGAGCTGGAAGAAGAAAAGAAGAAGAAATCCTGGAT
TTTGGGGCTTTCCAGTCCAGCTCGGCAACAGACTTTCATGGAGGAGATCTTTCAGCAC
CTGATGGCTATCACCAGGAGGCCAGCAAGCGCATCTCCAGCCACATCCCTTTGATCATC
CAGTTCTTCATGCTCCAGACGTACGGCCAGCAGCTTCCAGAGGCCATGCTGCAGCTCCTG
CAGGACAAGGACACCTACAGCTGGCTCCTGAAGGAGCGGAGCGACACCAGCGACAAGCGG
AAGTTCTGAAGGAGCGGCTTGACGGCTGACGCAGGCTCGGCGCCGGCTTGCCAGTTC
CCCGTTAA

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Clone variation with respect to NM\_002462.3  
669 c=>t;1135 g=>a

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002462 unedited</p> <p>GAAGACCAATTCGCACGAGGCGCAGTTGTTTGNCCGNAATCCCAGTGTACGGTGGCAC  ACTCCTCCCTCGCGCCCTTGCCGCCACCTGCTCACCCAGCTCAGGGGCTTTGGAATTCT  GTGGCCACACTGCGAGGAGATCGGTTCTGGGTCGGAGGCTACAGGAAGACTCCCCTCTC  GTAAGTGGAGTGAATAACGCCGCTCATCCAGCCACCATTCCAAGGAGGTGAGGAGAACA  GCTCTGTGATACCATTTAACTTGTGACATTACTTTTATTTGAAGGAACGTATATTAGAG  GCATCGCTTTTATTTAAAGCTTACTTTTGCAGAAAGGAAGATGGTTGTTTCCGAAGTGA  CATCGCAAAAGCTGATCCAGCTGCTGCATCCACCCCTCTATTACTGAATGGAGATGCTAC  TGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAAACCTGTGCAGCCAGTATGAGGA  GAAGGTGCGCCCTGCATCGACCTCATTGACTCCCTGCGGGCTCTAGGTGTGGAGCAGGA  CCTGGCCCTGCCAGCCATCGCCGTCATCGGGGACCAGAGCTCGGGCAAGAGCTCCGTGTT  GGAGGCACTGTCAGGAGTTGCCCTTCCAGAAAGCAGCGGGATCGTGACCAGATGCCCGCT  GGTGTGNAACTGAAGAAGTGTGAACGAAGTAAGTGGAAAGGCAGGTGAGTTACCAGGA  CTACGAGATTGAGATTTTCGATGCTTCAGAGGTAGAAAAGGAAATTAATAAGCCACAA  TGCCATCGCCGGGAAAGATGGGAATCAGTCTGAACTAATCACCTGGAGATCACCTC  CGAGATGTCCCGATACTGACTTAAAACTTTCTGGGATAC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002462 unedited</p> <p>AATCNTTGCCCGCGCCCAATTCACATNCGGTTTTTTTTTTTTTTTTTTTTCTGCTACAAA  TGACTCATTACAGACAGAGGAGACAGGGTGGGACAGGACGCACACACACGGCACTCATG  CTCCTAAAACACTGGGTTTGTGAAGGGACATTATAAAAAAGAGGAAATAAGCTGTGATGT  TCAGCATGTGTCAGTTTCTAGGAATACAGAGAAGGGTTTTATTTGCAAGGTGGAGCGATT  CTGAGGGCTGAAAATCCCTTTCTTTTTCGAAGACAGCATCCTTCAATCCCGCCAGCTCAT  GTGCATCTGAGGGTGGGGCTCTGTCTTCTGCTAGAAACCAAACCTGCTCTCACAGTTCC  TGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTATCCAGTCTGACTACTGAGC  ACTCAAGTCGTCAGTCCAGTGGCTACCCGGGAACGGGGGACAGCAGCGTGCAGTGCACGTC  TACGGGGCTGGACAGAGTGTGGTTAACCCGGGAACGGGGGACAGCAGCGTGCAGTGCACGTC  TCAGTCGTGCAAGCCGCTCCTTCAGGAACCTCCGCTTGTGCTGGTGTGCTCCCTCTT  TCAGACCAGCTGTAGGTGTCTTGTCTGCAGGAGCTGCAGTATGCCCTTCTGAACCTG  CTGGCCGACCCCTCGGAGCATGAAAACCTGTATGATCAAAGCGACGTGCTTCGAAATCCC  CTTTGCTGGCCTCTCGCGATAGGCCCTACGGTGTGCAAGATCCCTCCCGGCAAAAC  CTGTTGCCGAGCTGGAAGTGGAAACGCCCAAACCCAGGAATTCTTTTTCTTCTTCT  TACCACTTCTTCTCTGACCTTTTTCGAATGACCCCTCGTATCCCGGCTCGGAATA  AACAAACCGCCATTTGAAAAGGCGGCCCGCCCTTTTTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002462
<b>Insert Size:</b>	2380 bp
<b>OTI Disclaimer:</b>	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).
<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>	<a href="#">NM_002462.2</a> , <a href="#">NP_002453.1</a>
<b>RefSeq Size:</b>	2787 bp
<b>RefSeq ORF:</b>	1989 bp
<b>Locus ID:</b>	4599
<b>UniProt ID:</b>	<a href="#">P20591</a>
<b>Cytogenetics:</b>	21q22.3
<b>Domains:</b>	dynamamin_2, dynamamin, GED
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (2, also known as T1) lacks three exons and contains an alternate terminal exon in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same isoform (a).</p>