

## Product datasheet for **MC205635**

### **Mx2 (NM\_013606) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx2 (NM_013606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mx2
Synonyms:	A1528743; Mx-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC007127  
 GCCGGGAGTGTGAGTGTGCACAGGATTCTGTGGAAGGATAGAGGATACCTTCTAAGGCTCTTTGTAG  
 ACACTGAGTACCCAAGTACGAGAGAAGAAATAAAGATGGTTCTTAGCACAGAAGAAAACACAGGCGTTGAT  
 TCAGTCAACTTACCCAGTGGAGAGACGGGCCTAGGAGAGAAAGACCAGGAGTCTGTGAACAATCTCTGCA  
 GTCAGTATGAGGAGAAGGTGCGGCCCTGCATTGACCTCATCGACTCCCTGCGGGCTCTGGGTGTGGAGCA  
 GGACCTGGCCCTGCCTGCCATCGCTGTCAATGGGGACCAGAGTTACAGGAAGAGCTCTGTGCTGGAAGCA  
 CTGTCTGGAGTGGCCCTCCCCAGAGGCAGTGGTATTGTCAACCAGATGCCCTCTGGTGTGAAATGAGGA  
 AGCTGAATGAGGGAGAGGAGTGGAGAGGCAAGTCTCCTATGATGACATCGAAGTGGAGCTCTGTATCC  
 TTCAGAGGTGGAAGAGGCCATCAACAAGGGTCAGAACTTCATTGCTGGGGTAGGTCTGGGGATCAGTGAT  
 AAGCTCATTAGCCTGGATGTCAGCTCCCAAAATGTCCAGACCTGACTCTCATTGACCTGCCTGGAATTA  
 CCAGGGTGGCTGTAGGCAACCAGCCTGCAGACATAGGACGCCAGATCAAGAGACTCATCAAGACATACAT  
 CCAAAAACAGGAGACCATCAACCTGGTGGTGGTCCCCAGCAATGTGGACATTGCCACCACAGAGGCTCTG  
 AGCATGGCTCAGGAGGTGGACCTGAAGGGGATAGGACCATAGGGATCTTGACCAAGCCCGATCTGGTGG  
 ACAGAGGTAAGACAAGGTCTGGATGTGGTGGGAACTGGTGTACCATCTGAAGAAGGGCTACAT  
 GATAGTCAAGTGCAGAGGCCAGCAGGACATCCAAGAGCAGCTGAGCCTGACTGAGGCTCTTCAGAATGAG  
 CAAATCTTCTCAAGGAACACCCTCATTTACAGAGTTCTTCTGGAGGATGGGAAGGCCACAGTGCCTGCC  
 TGGCAGAGAGACTGACCCGAGAGCTCATCTCACACATCTGTAAATCTCTCCCTCTGCTAGAAAATCAAAT  
 AAAGGAAAGTACCAGAGTGAAGTGAAGGAGTGCAGAAGTACGGTATGGACATACCAGAAGATGACAGT  
 GAAAAAATTTCTTCTGATCGAAAAATCAATGCTTTTAACCAGGACATCACTGCCCTAGTACAAGGGG  
 AAGAGAATGTGGCAGAGGGAGAATGTGCGCTATTCACCAGGCTCCGAAAAGAGTTCTTGTCTGGAGTAA  
 GGAGATCGAAAAGAAATTCGAAAAGGTTATGCTGTTTTATAAATGAAGTCTGGGCATTTGAAAAGCAG  
 TATCGTGGCCGAGAATTGCCAGGGTTTGTGAATTACAAAACATTTGAGAACATTATAAGAAGACAAATCA  
 AAACCTGGAAGAACCAGCTATAGAAATGCTGCACACGGTCACTGAAATTTGACGAGCTGCCTTTACAAG  
 TGTTTTCTGAGAAAAATTTTCTGAGTTTTATAACCTCCACAGAATACCAAGTCCAAAATTTGAAGACATC  
 AGATTAGAAACAAGAAAAGGAAGCAGAGATGTCGATCCGACTCCACTTCAAGATGGAACAATTTACTACT  
 GCCAGGACCAGATTTACAGAGGAGCCTTGCAAGGTCAGAGAGGAGGAAGCTGAGGAGGAGAAGAAGAC  
 AAAGCATGGCACTTCCAGTTCCTCTCAGTCCCAAGATTTACAGACCTCATCCATGGCTGAGATCTCCAG  
 CATCTGAATGCCTACCGCAGGAGGCTCACAACCGCATCTCCAGCCAGTTCCCTTGATCATCCAGTATT  
 TCATCCTGAAAATGTTTGTGAGCGGCTGCAGAAGGGCATGCTCCAGCTCCTGCAGGACAAGGATTCCTG  
 CAGCTGGCTCCTGAAGGAGCAGAGTGACACAAGCGAGAAGAGGAAGTTCCCTGAAGGAGAGGCTGGCAAGG  
 CTGGCCCAGGCTCGGCGCGGCTAGCCAAATCCCTGGTTAAGCTGGCTCTGTCTTCCCTGTGTTTCT  
 GGATTGTGATTACGGGACAGAAGGGCTCCTGCCTTTCTGGTAGCTATACCACCAGCCTTTATGCTCTGA  
 TAAGTGCTAGCACTCAGATTTGAAGGAGCTTTCTGCTCACTCTGAGATGAGGAAGAGAAAGAGGCTCTCA  
 AAGCTCAGCAAGTAGATGGGTAGAGGAAGCCACTTTGCTAATAAGACAACGGCTTCACCCTGAGTACTCT  
 TCTTGCCACCATTTAGCACACTGCCAGAAATAAATATTTGATGTACAAAAAATTTTTTTTTTTTTTTTTT

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_013606

**Insert Size:** 1968 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).

**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:** [BC007127](#), [AAH07127](#)

**RefSeq Size:** 2372 bp

**RefSeq ORF:** 1968 bp

**Locus ID:** 17858

**UniProt ID:** [Q9WVP9](#)

**Cytogenetics:** 16 57.51 cM

**Gene Summary:** This gene encodes a member of the Mx protein family of large GTPases, and functions in the innate immunity system. Interferon alpha/beta treatment or viral infection induces expression of this protein, which subsequently accumulates in the cytoplasm and inhibits viral replication. It has been shown to confer resistance to vesicular stomatitis virus, a member of the rhabdovirus family, but not to influenza virus. This gene produces a functional protein in some feral mouse strains, whereas some inbred mouse strains including the strain of the reference genome, C57BL/6J, contain a frameshift that inactivates this gene product. [provided by RefSeq, Jul 2008]

**Transcript Variant:** This variant (1) encodes the functional protein. This variant is not expressed in the mouse reference genome strain. **Sequence Note:** This RefSeq record was created to represent the transcript and the full-length, functional protein that is expressed in several strains. It does not contain a one nucleotide insertion that causes a frameshift in the CDS of several strains, including the strain of the reference genome, C57BL/6J.