

## Product datasheet for **RR213953**

### **Mx2 (NM\_134350) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mx2 (NM_134350) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mx2
Synonyms:	Mx3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR213953 representing NM\_134350  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTTCTTAGCACAGAGAAAACAGGAGTGTTGATTTAGTCAACTTACCCAGTGTCCACTGCCCGATG  
GAGAGGCTGGCGTAGGGGAGAACAACAAGGATTCCTTGAACAACCTCTGCAGTCAGTATGAGGAGAAGGT  
GCGGCCCTGCATTGACCTCATCGACTCCCTGCGAGCTCTGGGTGTGGAGCAAGACCTGGCCCTGCCTGCC  
ATCGCTGTATCGGGGACCAGAGTTCAGGGAAGAGCTCTGTGCTGGAAGCACTGTCTGGAGTGGCCCTCC  
CCAGAGGCACTGGTATTGTACCCAGATGTCCCCTGGTGTGAAATTGAAGAAGCTGAATCAGGGAGAGGA  
GTGGAAGGCAAAGTACCTATGATGACATCGAAGTGGAGCTCTCTGATCCTTCAGAGGTGGAAGAGGCC  
ATCAACACAGGTCAGAACCATATTGCTGGGGTAGGGCTGGGGATCAGTGATAAACTATTAGCCTGGATG  
TCAGCTCCCCACACGTCCAGACCTGACTCTGATTGACCTTCTGGAATCACCAGGTGGCTGTAGGCAA  
CCAGCCTGCAGACATAGGACGGCAGATCAAGAGACTTATCACTAACTACATCCAAAAACAAGAGACCATC  
AACCTGGTGGTGGTCCCCAGCAATGTGGACATTGCCACCACAGAGGCCCTGAGCATGGCTCAGAAGTGG  
ACCCTGATGGGGATAGGACCATAGGGATCTTGACCAAGCCTGATCTGGTGGACAGAGGGACTGAAGACAA  
GGTCGTGGATGTGGTGGGAACCTCGTGTGCCACCTGAAGAAGGGCTACATGATAGTCAAGTGCAGGGGT  
CAGCAGGACATCCAGGAGCAGCTGAGCCTGGCTGAGGCTCTTCAAGAGCAAGTCTTCTCAAGGAAC  
ACCCTCAATTCAGAGCTCTTCTGGAGGATGGGAAGGCCACAGTGGCCCTGCCTGGCAGAGAGGCTGACCAT  
GGAGCTCATCTCACACATCTGTAATCTCTTCTTTGTTAGAAAAACAATAAAGGAAAGTCAACCAGAGT  
ACAAGTGAGGAGCTGCAGAAGTATGGTGCAGACATACCAGAAGATGAGAATGAAAAAATCTCTTCTGTA  
TTGAAAAAATCAATGCTTTTAAACCAGGACATCACTGCCATAGTAGAAGGGGAAGAGATTGTGAGGGAGAA  
AGAATGTCGCCTATTCACCAAGCTCCGTAAGAGTTCTTCTTGTGGAGTGAAGAGATCGAAAGGAATTTTC  
CAAAAAGGTTCTGATGCTTTATATAAAGAAGTCTACACATTCGAAATGCAGTATCGTGGCCGAGAATAC  
CAGGGTTTGTGAATTACAAAACATTTGAGAACATCATAAGAAGACAAATCAAAACCCTGGGAAGACCAGC  
TATGGAATGCTTACAAGGTCCTGAAATGTACGGGCTGCCTTTACAACGTTTCTGAGAAAAATTTCT  
TCTGAGTTTTTAACTCCACAGAATACCAAGTCCAACTTGAAGACATCAGATTAGAACAGGAAACGG  
AAGCAGAGAAGGCGATCCGGCTCACTTCCAGATGGAACAATCATCTACTGCCAGGACCAATTTATAG  
GAAAGCCTTGAGAAGGTGAGAGAGGAGGAAGCTGAGGAGGAGGAGGAAGCATGGCAAAGCAGGTCC  
GCTCAGTCCCAATTTACAGACCTCATCCATGGATGAAATCTTCCAGCATCTGAATGCCTACCGCCAGG  
AGGCTCACAACCTGCATCTCCAGCCACATTCATTGATCATCCAGTATTTTCATCTTGAAGATGTTTGTCTGA  
GAAGCTGCAGAAGGGCATGCTCCAGCTCTGCAGGACAAGGATTCCTGCAGCTGGCTCCTGAAGGAAAAAG  
AGTGACACCAGTGAGAAGAGGAGATTCTGAAGGAGCGGTTGGCAAGGCTGGCCCAAGCTCAGCGCAGGC  
TAGCCAAATTCCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213953 representing NM\_134350  
 Red=Cloning site Green=Tags(s)

MVLSTEENRSVDLVNLPVPLPDGEAGVGENNKDSLNNLCSQYEEKVRPCIDLIDSLRALGVEQDLALPA  
 IAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKNQGEWKGKVTYDDIEVELSDPSEVEEA  
 INTGQNHIAAGVGLGISDKLISLDVSSPHVPLTLIDLPGITRVAVGNQPADIGRQIKRLITNYIQKQETI  
 NLVVVPSNVDIATTEALSMAQKVDPDGDRITIGILTKPDLVDRGTEDKVVVDVVRNLVCHLKKGYMIVKCRG  
 QQDIQEQLSLAEALQKEQVFKEHPQFRALLEDKATVCLAERLTMELISHICKSLPLENQIKESHQS  
 TSEELQKYGADIPEDENEKTLFLIEKINAFNQDITAIVEGEEIVREKECRLFTKLKREFFLWSEEIERNF  
 QKGS DALYKEVYTFEMQYRGRELPGFVNYKTFENIIRRQIKTLEEPAMEMLHKVTEIVRAAFTTVSEKNF  
 SEFFNLHRTTKSKLEDIRLEQETEAEKAI RLFHQMEQIIYQDQIYRKALQKVREEEAE EEEERKHGKSR S  
 AQSPNLQTSSMDEIFQHLNAYRQEAHNCISSHIPLIIQYFILKMF AEKLQK GMLQLLQDKDSCSWLLKEK  
 SDTSEKRRFLKERLARLAQAQRRLAKFPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

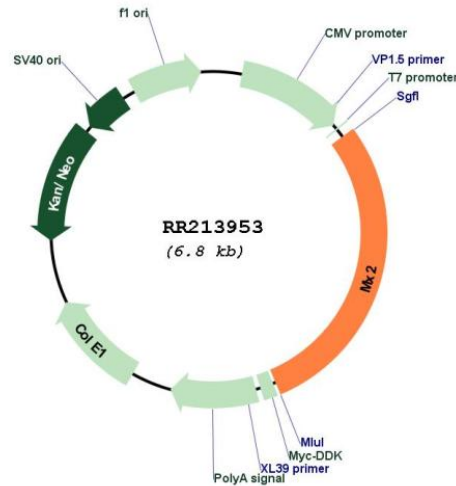
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_134350

ORF Size: 1977 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\\_134350.2](#), [NP\\_599177.2](#)

RefSeq Size: 2623 bp  
RefSeq ORF: 1980 bp  
Locus ID: 286918  
Cytogenetics: 11q12  
MW: 74.9 kDa  
Gene Summary: involved in inhibiting vesicular stomatitis virus [RGD, Feb 2006]