

Product datasheet for **SC127459**

MX2 (NM_002463) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MX2 (NM_002463) Human Untagged Clone
Tag:	Tag Free
Symbol:	MX2
Synonyms:	MXB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127459 sequence for NM_002463 edited (data generated by NextGen Sequencing)

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ATGTCTAAGGCCACAAGCCTTGGCCCTACCGGAGGAGAAGTCAATTTTCTTCTCGAAAA
TACCTGAAAAAAGAAATGAATTCCTTCCAGCAACAGCCACCGCCATTTCGGCACAGTGCCA
CCACAAATGATGTTTCTCCAACTGGCAGGGGGCAGAGAAGGACGCTGCTTTCCTCGCC
AAGGACTTCAACTTTCTCACTTTGAACAATCAGCCACCACCAGGAAACAGGAGCCAACCA
AGGGCAATGGGGCCCAGAACCACTGTACAGCCAGTACGAGCAGAAGGTGCGCCCTGC
ATTGACCTCATCGACTCCCTGCGGGCTCTGGGTGTGGAGCAGGACCTGGCCCTGCCAGCC
ATCGCCGTCATCGGGACCAGAGCTCGGGCAAGAGCTCTGTGCTGGAGGCACTGTCAAGGA
GTCGCGCTTCCCAGAGGCAGCGGAATCGTAACCAGGTGTCGCTGGTGTGAAACTGAAA
AAGCAGCCCTGTGAGGCATGGGCCGGAAGGATCAGCTACCGGAACACCGAGCTAGAGCTT
CAGGACCCTGGCCAGGTGGAGAAAGAGATACACAAAGCCAGAACGTATGGCCGGGAAT
GGCCGGGGCATCAGCCATGAGCTCATCAGCCTGGAGATCACCTCCCTGAGGTTCCAGAC
TTGACCATCATTGACCTCCCGGCATCACCAGGGTGGCTGTGGACAACCAGCCCCGAGAC
ATCGGACTGCAGATCAAGGCTCTCATCAAGAAGTACATCCAGAGGCAGCAGACGATCAAC
TTGGTGGTGGTTCCCTGTAACTGGACATTGCCACCACGAGGGCCTGAGCATGGCCCAT
GAGGTGGACCCGGAAGGGGACAGGACCATCGGTATCCTGACCAAACCAGATCTAATGGAC
AGGGGCACTGAGAAAAGCGTCATGAATGTGGTGCAGAACCTCACGTACCCCTCAAGAAG
GGCTACATGATTGTGAAGTGCAGGGGCCAGCAGGAGATCACAACAGGCTGAGCTTGGCA
GAGGCAACCAAGAAAGAAATTACATTCTTTCAAACACATCCATATTTTTCAGAGTTCTCCTG
GAGGAGGGGTGAGCCACGGTTCCCGACTGGCAGAAAGACTTACCACTGAACTCATCATG
CATATCCAAAAATCGCTCCCGTGTGTTAGAAGGACAAATAAGGGAGAGCCACCAGAAGGCC
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GAAGTTGTAAAGGAGAATGAGACCCGTTTATAACAACAAAATCAGAGAGGATTTTAAAAAC
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GAAAAATATGAAAAGCAGTATCGAGGCAAGGAGCTTCTGGGATTTGTCAACTACAAGACA
TTTGAGATCATCGTGCATCAGTACATCCAGCAGCTGGTGGAGCCCGCCCTTAGCATGCTC
CAGAAAGCCATGGAAATATCCAGCAAGCTTTCATTAACGTGGCCAAAAAACATTTTGGC
GAATTTTTCAACCTTAACCAAATGTTTCAGAGCACGATTGAAGACATAAAAGTGAACAC
ACAGCAAAGGCAGAAAACATGATCCAATTCAGTTCAGAATGGAGCAGATGGTTTTTTGT
CAAGATCAGATTTACAGTGTGTTCTGAAGAAAGTCCGAGAAGAGATTTTAAACCCTCTG
GGGACGCCTTACAGAATATGAAGTTGAACTCTCATTTTCCAGTAATGAGTCTTCGGTT
TCTCCTTTACTGAAATAGGCATCCACCTGAATGCCTACTTCTTGGAAACCAGCAAACGT
CTCGCAAACCAGATCCCATTATAAATTCAGTATTTTATGCTCCGAGAGAAATGGTGACTCC
TTGCAGAAAGCCATGATGCAGATACTACAGGAAAAAAATCGCTATTCTGGCTGCTTCAA
GAGCAGAGTGAGACCGCTACCAAGAGAAGAATCCTTAAGGAGAGAATTTACCGGCTCACT
CAGGCGGACACGCACTCTGTCAATTCTCCAGCAAAGAGATCCACTGA
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Clone variation with respect to NM_002463.1
661 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002463 unedited
 TTTGTATACGACTCACTATAGGCGGCCGGAATTCGGCACGAGGGGAAGATCGGAGGTGC
 CAAGTAGCAGAGAAAAGCATCCCCAGCTCTGACAGGGAGACAGCACATGTCTAAGGCCCA
 CAAGCCTTGGCCCTACCGGAGGAGAAGTCAATTTTCTTCTCGAAAATACCTGAAAAAAGA
 AATGAATTCCTTCCAGCAACAGCCACCGCCATTCGGCACAGTGCCACCACAAATGATGTT
 TCCTCCAAACTGGCAGGGGGCAGAGAAGGACGCTGCTTTCCTCGCAAGGACTTCAACTT
 TCTCACTTTGAACAATCAGCCACCACCAGGAAACAGGAGCCAACCAAGGGCAATGGGGCC
 CGAGAACAACCTGTACAGCCAGTACGAGCAGAAGGTGCGCCCTGCATTGACCTCATCGA
 CTCCTTGCGGGCTCTGGGTGTGGAGCAGGACCTGGCCCTGCCAGCCATCGCCGTCATCGG
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 AGGCAGCGGAATCGTAACCAGGTGTCCGCTGGTGTGAACTGANAAAGCAGCCCTGTGA
 GGCATGGGCCGGAAGGATCAGCTACCGAACACCGAGCTAGAGCTTCAGGACCCTGGCCA
 GGTGGAGAAAGAGAACAACAAAGCCAAAACGTCATGGCCCGGAATGGCCGGGCATCAN
 CCATGAGCTCATCAGCCTGGGAGATCACCTNCCCCTGAGGGTCCCAGACTTGACCATCAT
 TTGACCTTCCCGCATCACCAGGTGGGCTGTTGGAACACCAGCCCCGAGACTTCGGAC
 TGGCAGATCAAGGCTCTCATCAGGAAGTACATCCAGAGGCAGCAGACGATCAACTTGGGG
 GGGGGGNNCTCTGTACGTTGGACATGGCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002463 unedited
 TGTGGCTTTTCTAAGCTTACATGCTGCAGTGTGTGCAGGGAGATGGACATACAAAATA
 AGAATTTGACCCAGACCTTCCCCCTCTGGGGTCTCATAATCTTGTAGGGGAAGGAATA
 CAAATACAAATTAGCGAAGAATGATAGCAGTATCTTAGGACACTGTAACGTGTGTGCTACG
 GGACCCAAGGACTGGAGAGCCATCCCTTCGTGAAGGTCAGGGAAGAGCTGGGTGGTGGAG
 AGAGCTGAGCCTGTGTGGACCCCTGATGCATGCTCTGATGCTGAGGGAGTACAGTAGAGA
 TGGACACTGATAGTGACAGAAGAGTTTGGCCCCAAAGCAGAAGCGGCATCCTGCACCGAC
 TCCCCTTAGAATGAATGAGTACGCACAAGAAAACAACCACAGGCATCGCCGCCCTTCAGT
 GGATCTCTTTGCTGGAGAATTGACAGAGTGCCTGTGCGCCTGAGTGAGCCGGTAAATTC
 TCTTCTAAGGATTCTTCTTTGGTAGCGGTCTCACTCTGCTCTTGAAGCAGCCAGGAAT
 AGCGATTTTTTCTGGTAGATCTGCATCATGGCTTTCTGCAAGGAGTCACCATTCTCTC
 GGAGCATAAAAATACTGAATTATAAATGGGATCTGGTTGGCGAGACGGTTGTTGGTTCCA
 AGAAGTAGGCATTACGTGGATGCCTATTTTCATTAAAGGAGGAAACCGACCACTCTTACT
 TGGAATATGAGCAGTTAACTTATATTCTGTGAAGCGTTCCACAGGCTAAAGACTTTTT
 CTCCGACTTTCTCCGAACAACCTTGAAAGTGGATTTGACAAAAATCATCTGCTCATT
 CGATCGTAACTGGTCCATGTTTTGCCCCTTGC CGCGGAGTGAACGTTTAGGTATCCATCG
 CCCTTCACAATTGGTACGCTTTATAATCCGCTTAGTTCCCGCCCCCTATTAAACTTGTA
 CCAACCTCGCCCCGGAN

Restriction Sites:

NotI-NotI

ACCN:

NM_002463

Insert Size:

2800 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>
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:	NM_002463.1 , NP_002454.1
RefSeq Size:	2961 bp
RefSeq ORF:	2148 bp
Locus ID:	4600
UniProt ID:	P20592
Cytogenetics:	21q22.3
Domains:	dynamamin_2, dynamamin, GED
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene has a nuclear and a cytoplasmic form and is a member of both the dynamamin family and the family of large GTPases. The nuclear form is localized in a granular pattern in the heterochromatin region beneath the nuclear envelope. A nuclear localization signal (NLS) is present at the amino terminal end of the nuclear form but is lacking in the cytoplasmic form due to use of an alternate translation start codon. This protein is upregulated by interferon-alpha but does not contain the antiviral activity of a similar myxovirus resistance protein 1. [provided by RefSeq, Jul 2008]</p>