

Product datasheet for **RG238625**

MX1 (NM_001282920) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MX1 (NM_001282920) 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) |



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ORF Nucleotide Sequence:

>RG238625 representing NM_001282920.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTTGTTTCCGAAGTGGACATCGCAAAGCTGATCCAGCTGCTGCATCCCACCCTCTATTACTGAAT
GGAGATGCTACTGTGGCCAGAAAAATCCAGGCTCGGTGGCTGAGAACAACCTGTGCAGCCAGTATGAG
GAGAAGGTGCCCCCTGCATCGACCTATTGACTCCCTCGGGCTCTAGGTGTGGAGCAGGACCTGGCC
CTGCCAGCCATCGCCGTATCGGGGACCAGAGCTCGGGCAAGAGCTCCGTGTTGGAGGCACTGTCAGGA
GTTGCCCTTCCCAGAGGCAGCGGATCGTGACCAGATGCCCGCTGGTGTGAAACTGAAGAACTTGTG
AACGAAGATAAGTGGAGAGGCAAGGTCAGTTACCAGGACTACGAGATTGAGATTTCCGGATGCTTCAGAG
GTAGAAAAGGAAATTAATAAAGCCAGAATGCCATCGCCGGGGAAGGAATGGGAATCAGTCATGAGCTA
ATCACCTGGAGATCAGCTCCGAGATGTCCGGATCTGACTCTAATAGACCTTCTGGCATAACCAGA
GTGGCTGTGGCAATCAGCCTGCTGACATTGGGTATAAGATCAAGACACTCATCAAGAAGTACATCCAG
AGGCAGGAGACAATCAGCCTGGTGGTGGTCCCCAGTAATGTGGACATCGCCACCACAGAGGCTCTCAGC
ATGGCCCAGGAGGTGACCCCGAGGGAGACAGGACCATCGGAATCTTGACGAAGCCTGATCTGGTGGAC
AAAGGAACTGAAGACAAGGTTGTGGACGTGGTGCAGAACCTCGTGTTCACCTGAAGAAGGTTACATG
ATTGTCAAGTGCCGGGCCAGCAGGAGATCCAGGACCAGCTGAGCCTGTCCGAAGCCTGCAGAGAGAG
AAGATCTTCTTTGAGAACCACCCATATTTAGGGATCTGCTGGAGGAAGGAAAGGCCACGGTTCCCTGC
CTGGCAGAAAACTTACCAGCGAGCTCATCACACATATCTGTAATCTCTGCCCTGTTAGAAAACAA
ATCAAGGAGACTACCAGAGAATAACAGAGGAGCTACAAAAGTATGGTGTGACATACCGGAAGACGAA
AATGAAAAAATGTTCTTCTGATAGATAAAGTAAATGCCTTAAATCAGGACACTGCTCTCATGCAA
GGAGAGAACTGTAGGGGAGGAAGACATTCGGCTGTTTACCAGACTCCGACACGAGTTCACAAATGG
AGTACAATAATTGAAAAAATTTTCAAGAAGGAGGCCAGCAAGCGCATCTCCAGCCACATCCCTTTGAT
CATCCAGTTCTTATGCTCCAGACGTACGGCCAGCAGCTTCAAGAAGCCATGCTGCAGCTCCTGCAGGA
CAAGGACACCTACAGCTGGCTCCTGAAGGAGCGGAGCGACACCAGCGACAAGCGGAAGTTCCTGAAGGA
GCGGCTTGACGGCTGACGCAGGCTCGGCGCCGCTTGCCAGTTCGCCGTTAACCACACTCTGTCCA
GCCCG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238625
 Blue=ORF Red=Cloning site Green=Tag(s)

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MVSEVDIAKADPAAASHPLLLNGDATVAQKNPGSVAENNLCSQYEEKVRPCIDLIDSLRALGVEQDLA
LPAIAVIGDQSSGKSSVLEALSGVALPRGSGIVTRCPLVLKLLKLVNEDKWRGKVSQDYIEISDASE
VEKEINKAQNAIAGEGMGISHELITLIEISSRDVPLTLIDLPGITRVAVGNQPADIGYKIKTLIKYIQ
RQETISL VVVPSNVDIATTEAL SMAQEVDPEDRTIGILTKPDLVDKGTEDKVVDVVRNLVFHLKGYM
IVKCRGQEIQDQLSLSEALQREKIFFENHPYFRDLLEEGKATVPCLAEKLTSELITHICKSLPLENQ
IKETHQRITEELQKYGVDIPEDENEKMFFLIDKVNAFNQDITALMQGEETVGEEDIRLFTLRHEFHKW
STIIENNFQEGGQAHLPHPFDHPVLHAPDVRPAASEGHAAAPAGQHLQLAPEGAERHQRQAEVPEG
AACTADAGSAPACVPRLTTLCPAP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-Mlul

| | |
|--------------------------|--|
| ACCN: | NM_001282920 |
| ORF Size: | 1524 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). |
| RefSeq: | NM_001282920.1 , NP_001269849.1 |
| RefSeq Size: | 1998 bp |
| RefSeq ORF: | 1527 bp |
| Locus ID: | 4599 |
| UniProt ID: | P20591 |
| Cytogenetics: | 21q22.3 |
| Protein Families: | Druggable Genome |
| MW: | 56.1 kDa |
| Gene Summary: | 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] |