

Product datasheet for **SC310334**

MDMX (MDM4) (NM_002393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDMX (MDM4) (NM_002393) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDMX
Synonyms:	BMFS6; HDMX; MDMX; MRP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002393 edited
 TGGAGCTGCCGTAAGTTTTACCAACAGACTGCAGTTTCTTCACTACCAAAATGACATCAT
 TTTCCACCTCTGCTCAGTGTTCACATCTGACAGTGTTCGAGGATCTCTCCTGGACAAA
 TCAATCAGGTACGACCAAACTGCCGCTTTTGAAGATTTTGCATGCAGCAGGTGCCAAG
 GTGAAATGTTCACTGTTAAAGAGGTCATGCACTATTTAGGTACAGTACATAATGGTGAAGC
 AACTTTATGATCAGCAGGAGCAGCATATGGTATATTGTGGTGGAGATCTTTGGGAGAAC
 TACTGGGACGTCAGAGCTTCTCCGTGAAAGACCCAAGCCCTCTCTATGATATGTAAGAA
 AGAATCTTGTCACTTTAGCCACTGCTACTACAGATGCTGCTCAGACTCTCGCTCTCGCAC
 AGGATCACAGTATGGATATTCCAAGTCAAGACCAACTGAAGCAAAGTGCAGAGGAAAGTT
 CCACTTCCAGAAAAAGAACTACAGAAGACGATATCCCCACACTGCCTACCTCAGAGCATA
 AATGCATACATTCTAGAGAAGATGAAGACTTAATTGAAAATTTAGCCCAAGATGAAACAT
 CTAGGCTGGACCTTGGATTTGAGGAGTGGGATGTAGCTGGCCTGCCTTGGTGGTTTTT
 GAAACTTGAGAAGCAACTATACACCTAGAAGTAATGGCTCAACTGATTTACAGACAAATC
 AGGATGTGGGTACTGCCATTGTTTCAGATACTACAGATGACTTGTGGTTTTTGAATGAGT
 CAGTATCAGAGCAGTTAGGTGTTGGAATAAAGTTGAAGCTGCTGATACTGAACAACAA
 GTGAAGAAGTAGGAAAGTAAGTGACAAAAGGTGATTGAAGTGGGAAAAATGATGACC
 TGGAGGACTCTAAGTCCTTAAGTGATGATACCGATGTAGAGGTTACCTCTGAGGATGAGT
 GGCAGTGTACTGAATGCAAGAAATTTAACTCTCCAAGCAAGAGGTAAGTGTTCGTTGTT
 GGGCCTTGAGGAAGGATTGGTATTCAGATTGTTCAAAGTTAACCCATTCTCTCCACGT
 CTGATATCACTGCCATACCTGAAAAGGAAAAATGAAGGAAATGATGTCCCTGATTGTGAA
 GAACCATTTCCGGCTCTGCTGTTAGACCTAAAGATGCGTATATAAAGAAAGAAAACCTCA
 AACTTTTTGATCCCTGCAACTCAGTGGAAATCTTGGATTTGGCTCACAGTTCTGAAAGCC
 AAGAGACCATCTCAAGCATGGGAGAACAGTTAGATAACCTTTCTGAACAGAGAACAGATA
 CAGAAAAACATGGAGGATTGCCAGAATCTCTTGAAGCCATGTAGCTTATGTGAGAAAAAGAC
 CACGAGACGGGAACATTATTCATGGAAGGACGGGCCATCTTGTCACTTGTTCCTGTTG
 CCAGAAGACTAAAGAAGGCTGGGGCTTCATGCCCTATTTGCAAGAAAGAGATTGAGCTGG
 TTATTAAGGTTTTATAGCATAATGGTAGTACGAACATAAAAAATGCATTTATTCAGTTCA
 CTTACCACATTATTTGAAAATCAATCCTTTATTTAATTTTATTTCCAACCTGTCAGAGAA
 TGTTCTTAGGCATCAAAATCCAAGGTAGCTG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002393 unedited
 GTCAAGGTCAGAAATGTATACGACTCATATAGGCGGCCCGCCAGTGTGATGGAATCTGCAG
 AATTCCGCCCTTTGGAGCTGCCGTAAGTTTTACCAACAGACTGCAGTTTCTTCACTACCAA
 AATGACATCATTTCCACCTCTGCTCAGTGTTCACATCTGACAGTGTTCGAGGATCTC
 TCCTGGACAAATCAATCAGGTACGACCAAACTGCCGCTTTTGAAGATTTTGCATGCAGC
 AGGTGCCAAGGTGAAATGTTCACTGTTAAAGAGGTCATGCACTATTTAGGTACAGTACAT
 AATGGTGAAGCAACTTTATGATCAGCAGGAGCAGCATATGGTATATTGTGGTGGAGATCT
 TTTGGGAGAACTACTGGGACGTCAGAGCTTCTCCGTGAAAGACCCAAGCCCTCTCTATGA
 TATGCTAAGAAAGAAATCTTGTCACTTTAGCCACTGCTACTACAGATGCTGCTCAGACTCT
 CGCTCTCGCACAGGATCACAGTATGGATATTCCAAGTCAAGACCAACTGAAGCAAAGTGC
 AGAGGAAAGTTCCACTTCCAGAAAAAGAACTACAGAAGACGATATCCCCACACTGCCTAC
 CTCAGAGCATAAATGCATACATTCTAGAGAAGATGAAGACTTAATTGAAAATTTAGCCCA
 AGATGAAACATCTAGGCTGGACCTTNGGATTGAGGAGTGGGATGTAGCTGGCCTGCCTTG
 GTGGTTTTTAGGAAACTTGAGAAGCACTATACACTAGGAAGTATGGCTCAACTGATTTAC
 AGACAAATCANGATGTGGGGTACTGGCCATTGTTTCAGATACTACAGATGACTTGTGGGT
 TTTTGAATGAATCAGTATCAGAAGCGTTTAGGTGTTGGATAA

3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_002393 unedited CTTTGGNNGATGGCACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGATGCCA CCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCGGAATTCAGATCTGGTACCGAG CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTCAGCTACCTTGGAT TTTGATGCCTAAGAACATTCTCTGACAGTTGGAATAAAATTAATAAAGGATTGATTT TCAAATAATGTGGTAAGTGAAGTGAATAAATGCATTTTTATGTTCTGACTACCATTATGC TATAAAAACCTTAATAACCAGCTGAATCTTTTCTGCAATAGGGCATGAAGCCCCAGC CTTCTTTAGTCTTCTGGCACAGTGAACAAGTGAACAAGATGGCCCGTCTTCCATGAAT AATGTTCCCGTCTCGTGGTCTTTTCTCACATAAGCTACATGGCTTCAAGAGATTCTGGCA ATCCTCCATGTTTTCTGTATCTGTTCTCTGTTTCAGAAAGGTTATCTAACTGTTCTCCCAT GCTTGAGATGGTCTTTGGCTTTCAGAACTGTGAGCCAAATCCAAGAATTCCTACTGAGTT GCAGGGATCAAAAAGTTGGAGTTTTCTTTCTTATATACGCATCTTTAGGTCTAACGAC AGGAGCCGAAATGGTTCTCGACAATCAGGGACATCATTTCTTCATTTTCTTTTCAGG TATGGCAGTGATATCAGACGTGGAGAGAGAATGGGTTAACTTTGAACAATCTGAATACCA ATCCTTCTCAGGCCCAACACGAAAACAGTACCTCTTGCTTGGAGAGTAAAATTTCTGC TTCAGTACACTGCCACTCATCTAAA</p>
Restriction Sites:	Please inquire
ACCN:	NM_002393
Insert Size:	1700 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>
OTI Annotation:	There are 1 nucleotide differences between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acid.
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:	<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_002393.2 , NP_002384.2
RefSeq Size:	2554 bp
RefSeq ORF:	1473 bp
Locus ID:	4194
UniProt ID:	O15151
Cytogenetics:	1q32.1
Domains:	SWIB
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	p53 signaling pathway
Gene Summary:	<p>This gene encodes a nuclear protein that contains a p53 binding domain at the N-terminus and a RING finger domain at the C-terminus, and shows structural similarity to p53-binding protein MDM2. Both proteins bind the p53 tumor suppressor protein and inhibit its activity, and have been shown to be overexpressed in a variety of human cancers. However, unlike MDM2 which degrades p53, this protein inhibits p53 by binding its transcriptional activation domain. This protein also interacts with MDM2 protein via the RING finger domain, and inhibits the latter's degradation. So this protein can reverse MDM2-targeted degradation of p53, while maintaining suppression of p53 transactivation and apoptotic functions. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (1, also known as MDM4-FL or HDMX) represents the predominant transcript, and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>