

Product datasheet for **RC233334**

MDMX (MDM4) (NM_001204172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MDMX (MDM4) (NM_001204172) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MDMX
Synonyms: BMFS6; HDMX; MDMX; MRP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233334 representing NM_001204172
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACATCATTTTCCACCTCTGCTCAGTGTTCACATCTGACAGTGCTTGACAGGATCTCTCCTGGACAAA
TCAATCAGGAAAATGAAGGAAATGATGTCCTGATTGTCGAAGAACCATTTCGGCTCCTGTCGTTAGACC
TAAAGATGCGTATATAAAGAAAGAAAACCCAACTTTTTGATCCCTGCAACTCAGTGGAATTCCTGGAT
TTGGCTCACAGTTCTGAAAGCCAAGAGACCATCTCAAGCATGGGAGAACAGTTAGATAACCTTTCTGAAC
AGAGAACAGATACAGAAAACATGGAGGATTGCCAGAATCTCTTGAAGCCATGTAGCTTATGTGAGAAAAG
ACCACGAGACGGGAACATTATTCATGGAAGGACGGCCATCTTGTCACCTGTTTTCACTGTGCCAGAAGA
CTAAAGAAGGCTGGGGCTTCATGCCCTATTTGCAAGAAAGAGATTGAGCTGGTTATTAAGGTTTTATAG
CA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233334 representing NM_001204172
Red=Cloning site Green=Tags(s)

MTSFSTSAQCSTSDSACRISPGQINQENEGNDVPDCRRTISAPVVRPKDAYIKKENSCLFDPCNSVEFLD
 LAHSSSQETISSMGEQLDNLSEQRDTENMEDCQNLKPCSLCEKRPDGNIIHGRTGHLVTCFHCARR
 LKKAGASCPICKKEIQLVIKVFIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001204172

ORF Size: 492 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001204172.1](#), [NP_001191101.1](#)

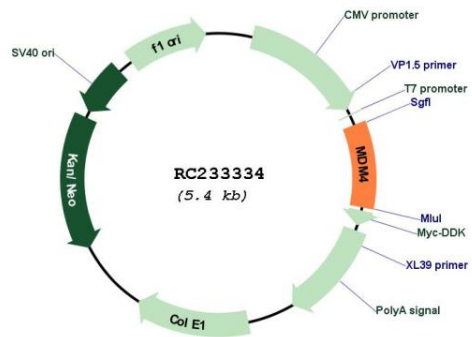
RefSeq Size: 9112 bp

RefSeq ORF: 495 bp

Locus ID: 4194

UniProt ID:	<u>O15151</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	p53 signaling pathway
MW:	18.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC233334