

Product datasheet for **RG234101**

MDMX (MDM4) (NM_001204171) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | MDMX (MDM4) (NM_001204171) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MDMX |
| Synonyms: | BMFS6; HDMX; MDMX; MRP1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG234101 representing NM_001204171 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATCATTTCCACCTCTGCTCAGTGTTCACATCTGACAGTGCTTGCAGGATCTCTCTGGACAAA
TCAATCAGGTACGACAAAACCTGCCGCTTTTGAAGATTTGCATGCAGCAGGTGCGCAAGGTGAAATGTT
CACTGTAAAGAGGTCATGCACTATTTAGGTCAGTACATAATGGTGAAGCACTTTATGATCAGCAGGAG
CAGCATATGGTATATTGGTGGAGATCTTTGGGAGAACTACTGGGACGTCAGAGCTTCTCCGTGAAAG
ACCAAGCCCTCTATGATATGCTAAGAAAGAATCTTGTCACTTAGCCACTGCTACTACAGATGCTGC
TCAGACTCTCGCTCTCGACAGGATCACAGTATGGATATTCGAAGTCAAGACCAACTGAAGCAAAGTGCA
GAGGAAAGTTCCACTCCAGAAAAGAACTACAGAAGACGATATCCCCACTGCCTACCTCAGAGCATA
AATGCATACATTTAGAGAAGATGAAGACTTAATTGAAAATTTAGCCCAAGATGAAACATCTAGGCTGGA
CCTTGGATTTGAGGAGTGGGATGTAGCTGGCCTGCCTTGGTGGTTTTAGGAACTTGAGAAGCAACTAT
ACACCTAGAAGTAATGGCTCAACTGATTTACAGACAAATCAGGTGATTGAAGTGGGAAAAATGATGACC
TGGAGGACTCTAAGTCCTAAGTGATGATACCGATGTAGAGGTTACCTCTGAGGATGAGTGGCAGTGTAC
TGAATGCAAGAAATTTAACTCTCAAGCAAGAGGACTGTTTTCGTTGTTGGCCCTTGAGGAAGGATTGG
TATTCAGATTGTTCAAAGTTAACCATTCTCTCCACGTCATGATCACTGCCATACCTGAAAAGGAAA
ATGAAGGAAATGATGTCCTGATTGTGCGAAGAACCATTTTCGGCTCCTGTGTTAGACCTAAAGATGCGTA
TATAAAGAAAAGAAAACCTCAAACCTTTTTGATCCCTGCAACTCAGTGGAATTTCTGGATTTGGCTCACAGT
TCTGAAAGCCAAGAGACCATCTCAAGCATGGGAGAACAGTTAGATAACCTTTCTGAACAGAGAACAGATA
CAGAAAACATGGAGGATTGCCAGAACTCTTGAAGCCATGTAGCTTATGTGAGAAAAGACCACGAGACGG
GAACATTATTCATGGAAGGACGGCCATCTTGTCACTTGTTCCTGTCGACAGAAAGACTAAAGAAGGCT
GGGCTTCATGCCCTATTTGCAAGAAAGAGATTCAGCTGGTTATTAAGGTTTTTATAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234101 representing NM_001204171
 Red=Cloning site Green=Tags(s)

MTSFSTSAQCSTSDSACRISPGQINQVRPKLPLLKILHAAGAQGEMFTVKEVMHYLGQYIMVKQLYDQQE
 QHMVYCGDLLGELLGRQSF SVKDPSPLYDMLRKNL VTLATATDAAQTLALA QDHSMDIP SQDQLKQSA
 EESSTRKRRTTEDDIPTLPTSEHKCIHSREDELIENLAQDETSRLDLGFEEWDVAGLPWWFLGNLRSNY
 TPRSNGSTDLQTNQVIEVGKNDLLEDSKSLSDDTDVEVTSEDEWQCTECKKFNSPKRYCFRCWALRKDW
 YSDCSKLTHSLSTSDITAIPEKENEGNDVPDCRRTISAPVVRPKDAYIKKENSCLFDPCNSVEFLDLAHS
 SESQETISSMGEQLDNLSEQRDTDENMEDCQNLKPCSLCEKRPRDGNIIHGRTGHLVTCFHCARRLKKA
 GASCPICKKEIQLVIKVFIA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204171

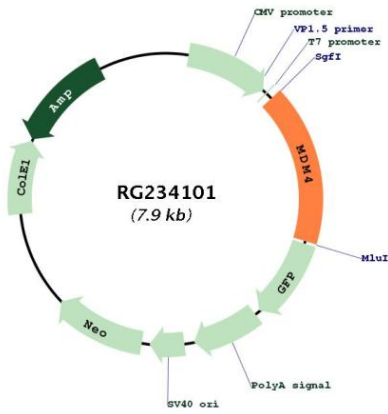
ORF Size: 1320 bp

OTI Disclaimer: 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.

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](#)

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| 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: | <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: | <u>NM_001204171.1, NP_001191100.1</u> |
| RefSeq Size: | 9940 bp |
| RefSeq ORF: | 1323 bp |
| Locus ID: | 4194 |
| UniProt ID: | <u>O15151</u> |
| Cytogenetics: | 1q32.1 |
| 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> |

Product images:



Circular map for RG234101