

Product datasheet for **RG235731**

MDMX (MDM4) (NM_001278518) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MDMX (MDM4) (NM_001278518) 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: >RG235731 representing NM_001278518.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACATCATTTCCACCTCTGCTCAGTGTCAACATCTGACAGTGCTTGCAGGATCTCTCTGGACAA
ATCAATCAGGTACGACCAAACTGCCGCTTTTGAAGATTTGCATGCAGCAGGTGCGAAGGTGAAATG
TTCAGTGTAAAGAGGTCATGCACTATTTAGGTACGTACATAATGGTGAAGCACTTTATGATCAGCAG
GAGCAGCATATGGTATATTGTGGTGGAGATCTTTGGGAGAACTACTGGGACGTGAGAGCTTCTCCGTG
AAAGACCAAGCCCTCTATGATATGCTAAGAAAGAATCTTGTCACTTTAGCCACTGCTACTACAGGT
GAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235731
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTSFSTSAQCSTSDSACRISPGQINQVRPKLPLLKILHAAGAQQEMFTVKEVMHYLQYIMVKQLYDQQ
EQHMVYCGDILLGELLGRQSFVKDPSPLYDMLRKNLVLATATTGD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001278518

ORF Size: 348 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_001278518.1](#), [NP_001265447.1](#)

RefSeq Size: 9611 bp

RefSeq ORF: 351 bp

Locus ID: 4194

UniProt ID: [O15151](#)

Cytogenetics: 1q32.1

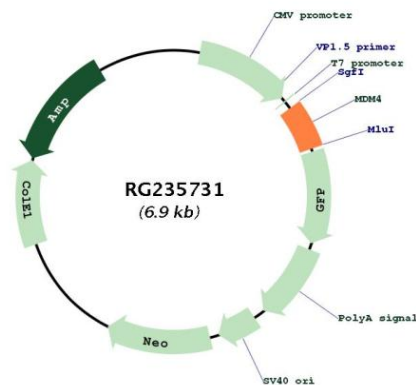
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: p53 signaling pathway

MW: 13.3 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 RG235731