

## 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:** MDM4  
**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)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACATCATTTCCACCTCTGCTCAGTGTTCACATCTGACAGTGCTTGCAGGATCTCTCTGGACAA
ATCAATCAGGTACGACCAAACTGCCGCTTTTGAAGATTTGCATGCAGCAGGTGCAGCAAGGTGAAATG
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
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKAHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI

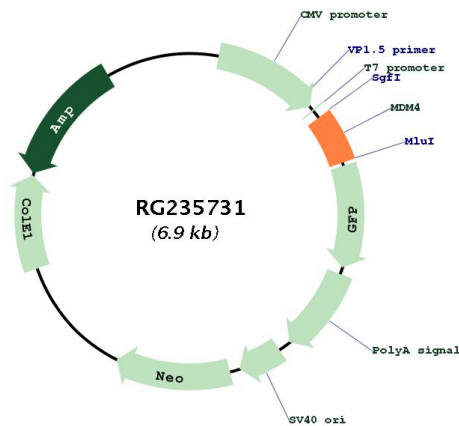


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Cloning Scheme:



Plasmid Map:



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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001278518.1</a> , <a href="#">NP_001265447.1</a>
<b>RefSeq Size:</b>	9611 bp
<b>RefSeq ORF:</b>	351 bp
<b>Locus ID:</b>	4194
<b>UniProt ID:</b>	<a href="#">O15151</a>
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	p53 signaling pathway
<b>MW:</b>	13.3 kDa
<b>Gene Summary:</b>	<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>