

Product datasheet for **RG227631**

MDM2 (NM_001145339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDM2 (NM_001145339) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MDM2
Synonyms:	ACTFS; hdm2; HDMX; LSKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227631 representing NM_001145339 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAGGAGCAGGCAATGTGCAATACCAACATGTCTGTACCTACTGATGGTGTGTAACCACTCAC
AGATTCAGCTTCGGAACAAGAGACCCTGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAGTCTGT
TGGTGACAAAAAGACACTTATACTATGAAAGAGGTTCTTTTTATCTGGCCAGTATATTAGACTAAA
CGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTCTAGGAGATTTGTTGGCC
TGCCAAGCTTCTCTGTGAAAGAGCACAGGAAAATATATACCATGATCTACAGGAACCTGGTAGTAGTCAA
TCAGCAGGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAGAAAACGCCACAAATCTGATAGTATT
TCCCTTTCCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAGCAGTAGCA
GTGAATCTACAGGGACGCCATCGAATCCGGATCTTGATGCTGGTGAAGTGAACATTCAGGTGATTGGTT
GGATCAGGATTCAGTTTCAGATCAGTTTGTGTAGAATTTGAAGTTGAATCTCTCGACTCAGAAGATTAT
AGCCTTAGTGAAGAAGGACAAGAATCTCAGATGAAGATGATGAGGTATATCAAGTTACTGTGTATCAGG
CAGGGGAGAGTGATACAGATTCATTTGAAGAAGATCCTGAAATTCCTTAGCTGACTATTGGAATGCAC
TTCATGCAATGAAATGAATCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGG
CTTCTGAAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAGCCAAACTGGAAAACCAACAAG
CTGAAGAGGGCTTTGATGTTCTGATTGTAAAAAACTATAGTGAATGATTCCAGAGAGTCATGTGTTGA
GGAAAATGATGATAAAATTACACAAGCTTCACAATCACAAGAAAGTGAAGACTATTCTCAGCCATCAACT
TCTAGTAGCATTATTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAGGGAAAGAAACCAAGACAAAAG
AAGAGAGTGTGGAATCTAGTTTGGCCCTTAATGCCATTGAACCTTGTGTGATTTGTCAAGGTCGACCTAA
AAATGTTGCATTGTCCATGGCAAACAGGACATCTTATGGCCTGCTTTACATGTGCAAAGAAGCTAAAG
AAAAGGAATAAGCCCTGCCAGTATGTAGACAACCAATCAAATGATTGTGCTAACTTATTTCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227631 representing NM_001145339
 Red=Cloning site Green=Tags(s)

MVRSRQMCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQYIMTK
 RLYDEKQQHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIRNLVVVNQEEENSDEL SGERQRKRKSDSI
 SLSFDESLALCVIREICCERSSSSESTGTPSNPDL DAGVSEHSGDWLDQDSVSDQF SVFEFEVSLDSEDY
 SLSEEGQEL SDEDEVYQVTYVQAGE SDTDSFEEDPEISLADYWKCTSCNEMNPPLPSHCNRCWALRENW
 LPEDKGGKDKGEISEKAKLENSTQAEEGFDVDPCKKTI V NDSRESCVEENDKITQASQSQSESDYSQPST
 SSSIIYSSQEDVKEFEREETQDKEE SVESLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKCLK
 KR NKPCPVCRQPIQMIVLTYFP

TRTRPLE - GFP Tag - V

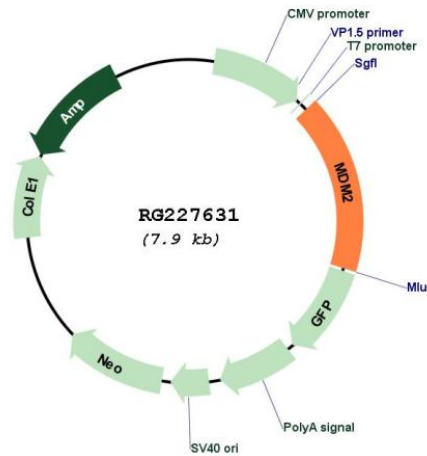
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001145339

ORF Size:	1326 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:	<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_001145339.2 , NP_001138811.1
RefSeq Size:	7204 bp
RefSeq ORF:	1329 bp
Locus ID:	4193
UniProt ID:	Q00987
Cytogenetics:	12q15
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Bladder cancer, Cell cycle, Chronic myeloid leukemia, Endocytosis, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer, Ubiquitin mediated proteolysis
Gene Summary:	This gene encodes a nuclear-localized E3 ubiquitin ligase. The encoded protein can promote tumor formation by targeting tumor suppressor proteins, such as p53, for proteasomal degradation. This gene is itself transcriptionally-regulated by p53. Overexpression or amplification of this locus is detected in a variety of different cancers. There is a pseudogene for this gene on chromosome 2. Alternative splicing results in a multitude of transcript variants, many of which may be expressed only in tumor cells. [provided by RefSeq, Jun 2013]