

Product datasheet for **RC227631**

MDM2 (NM_001145339) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MDM2 (NM_001145339) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MDM2 |
| Synonyms: | ACTFS; hdm2; HDMX; LSKB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC227631 representing NM_001145339
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAGGAGCAGGCAATGTGCAATACCAACATGTCTGTACCTACTGATGGTGTCTGAACCACCTCAC
 AGATTCACAGTTCGGAACAAGAGACCCTGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAGTCTGT
 TGGTGACAAAAAGACACTTATACTATGAAAGAGTTCTTTTTTATCTTGCCAGTATATTATGACTAAA
 CGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTTCTAGGAGATTTGTTTGCG
 TGCCAAGCTTCTGTGAAAGAGCACAGGAAAATATATACCATGATCTACAGGAACCTGGTAGTAGTCAA
 TCAGCAGGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAGAAAACGCCACAAATCTGATAGTATT
 TCCCTTCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAGCAGTAGCA
 GTGAATCTACAGGACGCCATCGAATCCGGATCTTGATGCTGGTGAAGTGAACATTCAGGTGATTGGTT
 GGATCAGGATTCAGTTTCAGATCAGTTTAGTGTAGAATTTGAAGTTGAATCTCTCGACTCAGAAGATTAT
 AGCCTTAGTGAAGAAGGACAAGAACTCTCAGATGAAGATGATGAGGTATATCAAGTTACTGTGTATCAGG
 CAGGGGAGAGTGATACAGATTCATTTGAAGAAGATCCTGAAATTTCTTAGCTGACTATTGGAAATGCAC
 TTCATGCAATGAAATGAATCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGG
 CTTCTGAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAACCAAACCTGGAAAACCAACACAAG
 CTGAAGAGGGCTTTGATGTTCTGATTGTAAAAAACTATAGTGAATGATTCCAGAGAGTCATGTGTTGA
 GGAAAAATGATGATAAAATACACAAGCTTACAATCACAAGAAAGTGAAGACTATTCTCAGCCATCAACT
 TCTAGTAGCATTATTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAGGGAAGAAACCAAGACAAG
 AAGAGAGTGTGGAATCTAGTTTGCCCTTAATGCCATTGAACCTTGTTGATTTGTCAAGGTCGACCTAA
 AAATGGTTGCATTGTCCATGGCAAACAGGACATCTTATGGCCTGCTTTACATGTGCAAAGAAGCTAAAG
 AAAAGGAATAAGCCCTGCCAGTATGTAGACAACCAATCAAATGATTGTGCTAACTTATTTCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227631 representing NM_001145339
 Red=Cloning site Green=Tags(s)

MVRSRQMCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQYIMTK
 RLYDEKQQHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIRNLVVVNQQEENSDEL SGERQRKRHKSDSI
 SLSFDESLALCVIREICCRSSSESTGTPSNPDL DAGVSEHSGDWLDQDSVSDQFSVEFEVESL DSEY
 SLSEEGQEL SDEDEVEYQVTVYQAGESDTSFEEDPEISLADYWKCTSCNEMNPPLP SHCNRCWALRENW
 LPEDKGDKEI SEKAKLENSTQAEEGFDVPDCKKTI VNSRESCVEENDKITQASQSSESDYSQPST
 SSSIIYSSQEDVKEFEREETQDKEESVSSLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKCLK
 KRNKPCPVCRQPIQMIVLTYFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8060_c03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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:

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 ORF: 1329 bp

Locus ID: 4193

UniProt ID: [Q00987](#)

Cytogenetics: 12q15

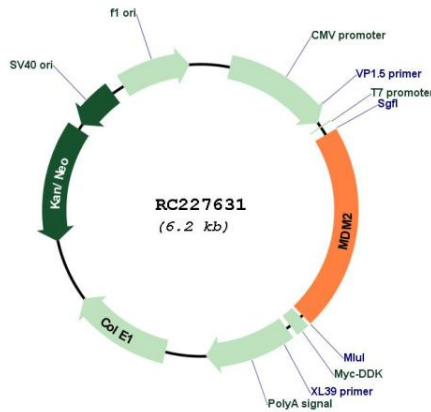
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Bladder cancer, Cell cycle, Chronic myeloid leukemia, Endocytosis, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer, Ubiquitin mediated proteolysis

MW: 49.8 kDa

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]

Product images:



Circular map for RC227631