

Product datasheet for **RC227519**

MDM2 (NM_001145337) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDM2 (NM_001145337) 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)



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ORF Nucleotide Sequence:

>RC227519 representing NM_001145337
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGAACCACTCACAGATTCAGCTTCGGAAC
 AAGAGACCCTGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAGTCTGTTGGTGCACAAAAGACAC
 TTACTACTAGAAAGAGGTTCTTTTTATCTTGCCAGTATATTGACTAAACGATTATATGATGAGAAG
 CAACAACATATTGTATATTGTTCAAATGATCTTCTAGGAGATTTGTTGGCGTGCCAAGCTTCTCTGTGA
 AAGAGCACAGGAAAATATATACCATGATCTACAGGAACCTGGTAGTAGTCAATCAGCAGGAATCATCGGA
 CTCAGGTACATCTGTGAGTGAGAACAGGTGTCACCTTGAAGGTGGGAGTGATCAAAGGACCTTGTACAA
 GAGCTTCAGGAAGAGAAACCTTCATCTTACATTTGGTTTCTAGACCATCTACCTCATCTAGAAGGAGAG
 CAATTAGTGAGACAGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAAGAAAACGCCACAAATCTGA
 TAGTATTTCCCTTTCCTTTGATGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGTGAAAGAAGC
 AGTAGCAGTGAATCTACAGGGACGCCATCGAATCCGGATCTTGATGCTGGTGTATATCAAGTTACTGTGT
 ATCAGGCAGGGGAGAGTGATACAGATTCATTTGAAGAAGATCCTGAAATTTCTTAGCTGACTATTGGAA
 ATGCACCTCATGCAATGAAATGAATCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAG
 AATTGGCTTCTGAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAGCCAAACTGGAAAACCTCAA
 CACAAGCTGAAGAGGGCTTTGATGTTCTGATTGTAAAAAACTATAGTGAATGATTCCAGAGAGTCATG
 TGTTGAGGAAAATGATGATAAAATTACACAAGCTTCAATCACAAGAAAGTGAAGACTATTCTCAGCCA
 TCAACTTCTAGTAGCATTATTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAGGGAAGAAACCCAAG
 ACAAAGAAGAGAGTGTGGAATCTAGTTTGCCCTTAATGCCATTGAACCTGTGTGATTTGTCAAGGTGCG
 ACCTAAAAATGGTTGCATTGTCCATGGCAAACAGGACATCTTATGGCCTGCTTTACATGTGCAAAGAAG
 CTAAGAAGAAAGGAATAAGCCCTGCCAGTATGTAGACAACCAATTCAAATGATTGTGCTAACTTATTTCC
 CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227519 representing NM_001145337
 Red=Cloning site Green=Tags(s)

MCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDYTMKEVLFYLGQYIMTKRLYDEK
 QQHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIRNLVVVNQQESSDSGTSVSENRCHEGGSDQKDLVQ
 ELQEEKPSSSHLVS RPSTSSRRRAISETTEENSDEL SGERQRKRHKSDSISL SFDESLALCVIREICCERS
 SSESSTGTPSNPDL DAGVYQVT VYQAGESDTSFEEDPEISLADYWKCTSCNEMNPPLPSHCNRCWALRE
 NWLPEDKGDKEISEKAKLENSTQAEEGFDVPCKKTI VNSRESCEVENDDKITQASQSQSESDYSQP
 STSSSIIYSSQEDVKEFEREETQDKEESVSSLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKK
 LKKRNKPCVCRQPIQMIVLTYFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

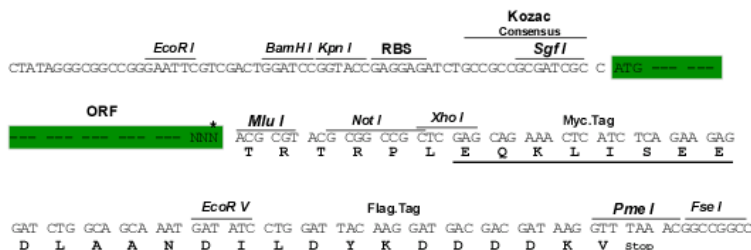
https://cdn.origene.com/chromatograms/mk8060_d09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145337

ORF Size: 1332 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_001145337.3](#)
RefSeq ORF: 1335 bp

Locus ID: 4193

Cytogenetics: 12q15

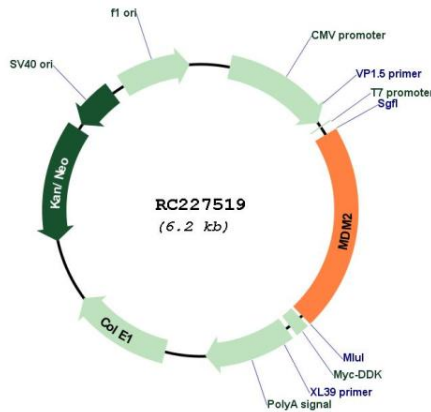
Protein Families: Druggable Genome, Transcription Factors

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

MW: 49.7 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 RC227519