

Product datasheet for RC237428

MDM2 (NM_001278462) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDM2 (NM_001278462) 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)
ORF Nucleotide Sequence:	>RC237428 representing NM_001278462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGTAACCACTCACAGATTCAGCTTCGGAAC
AAGAGACCCTGGTTAGACCAAAGCCATTGCTTTGAAGTTATTAAGTCTGTTGGTGACAAAAAGACAC
TTATACTATGAAAGAGGATCTTGATGCTGGTGAAGTGAACATTCAGGTGATTGGTTGGATCAGGATTCA
GTTTCAGATCAGTTTAGTGTAGAATTTGAAGTTGAATCTCTCGACTCAGAAGATTATAGCCTTAGTGAAG
AAGGACAAGAACTCTCAGATGAAGATGATGAGGTATATCAAGTACTGTGTATCAGGCAGGGGAGAGTGA
TACAGATTCATTTGAAGAAGATCCTGAAATTTCTTAGCTGACTATTGGAATGCACTTCATGCAATGAA
ATGAATCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAGAATTGGCTTCTGAAGATA
AAGGAAAAGATAAAGGGGAAATCTCGAGAAAGCCAAACTGGAAAACCAACACAAGCTGAAGAGGGCTT
TGATGTTCTGATTGTAAAAAACTATAGTGAATGATTCCAGAGAGTCATGTGTTGAGGAAAATGATGAT
AAAATTACACAAGCTTCAACATCACAAGAAAGTGAAGACTATTCTCAGCCATCAACTTCTAGTAGCATT
TTTATAGCAGCCAAGAAGATGTGAAAGAGTTTGAAGGGAAGAAACCAAGACAAAGAAGAGAGTGTGGA
ATCTAGTTTGGCCCTTAATGCCATTGAACCTTGTGTGATTGTCAAGTTCGACCTAAAAATGTTGCATT
GTCCATGGCAAAACAGGACATCTTATGGCCTGCTTTACATGTGCAAAGAAGCTAAAGAAAAGGAATAAGC
CCTGCCAGTATGTAGACAACCAATTCAATGATTGTGCTAACTTATTTCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237428 representing NM_001278462
Red=Cloning site Green=Tags(s)

MCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEDLDAGVSEHSGDWLDQDS
VSDQFSVEFEVESLSDSEYSLSEEGQELSDEDDEVYQVTYYQAGESDTSFEEDPEISLADYWKCTSCNE
MNPPLPSHCNRCWALRENWLPEDKGGKDKGEISEKAKLENSTQAEEGFDVPDCKKITVNDRESCEVEENDD
KITQASQSQSESDYSQPSTSSSIYSSQEDVKEFEREETQDKKESSVELPLNAIEPCVICQGRPKNGCI
VHGKTGHLMACFTCAKLLKRNKPCPVCRQPIQMIVLTYFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001278462

ORF Size: 963 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_001278462.2](#)

RefSeq Size: 6735 bp

RefSeq ORF: 966 bp

Locus ID: 4193

UniProt ID: [Q00987](#)

Cytogenetics: 12q15

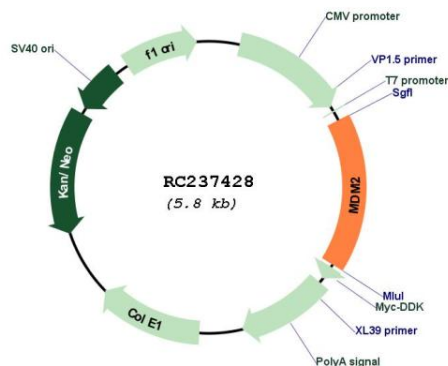
Protein Families: Druggable Genome, Transcription Factors

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

MW: 36.4 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 RC237428