

Product datasheet for **MR207827**

Mdm2 (NM_010786) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdm2 (NM_010786) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mdm2
Synonyms:	1700007J15Rik; AA415488; Mdm-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207827 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCAATACCAACATGTCTGTGTCTACCGAGGGTCTGCAAGCACCTCACAGATTCAGCTTCGGAAC
 AAGAGACTCTGGTTAGACCAAAACCATTGCTTTTGAAGTTGTTAAAGTCGGTTGGAGCGCAAACGACAC
 TTACACTATGAAAGAGATTATATTTTATATTGGCCAGTATATTATGACTAAGAGTTATATGACGAGAAG
 CAGCAGCACATTGTGATTGTTCAAATGATCTCCTAGGAGATGTGTTGGAGTCCCGAGTTTCTCTGTGA
 AGGAGCACAGGAAAATATATGCAATGATCTACAGAAATTTAGTGGCTGTAAGTCAGCAAGACTCTGGCAC
 ATCGCTGAGTGAGAGCAGACGTCAGCCTGAAGGTGGGAGTGATCTGAAGGATCCTTTGCAAGCGCCACCA
 GAAGAGAAACCTTCATCTTCTGATTTAATTTCTAGACTGTCTACCTCATCTAGAAGGAGATCCATTAGTG
 AGACAGAAGAGAACACAGATGAGCTACCTGGGAGCGGCACCGGAAGCGCCGAGGTCCTGTCTTTGA
 TCCGAGCCTGGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGCGGCAGCAGCAGCAGTAGCAGCAGCAGC
 AGCGAGTCCACAGAGACGCCCTCGCATCAGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCC
 TGGATCAGGATTCAGTTTCTGATCAGTTTAGCGTGGAAATTTGAAGTTGAGTCTCTGGACTCGGAAGATTA
 CAGCCTGAGTGACGAAGGGCACGAGCTCTCAGATGAGGATGATGAGGTCTATCGGGTACAGTCTATCAG
 ACAGGAGAAAGCGATACAGACTCTTTTGAAGGAGATCCTGAGATTTCTTAGCTGACTATTGGAAGTGTA
 CCTCATGCAATGAAATGAATCCTCCCCTCCATCACACTGCAAAAGATGCTGGACCCTTCGTGAGAACTG
 GCTTCCAGACGATAAGGGGAAAGATAAAGTGAAATCTCTGAAAAGCCAACTGGAAAACCTCAGCTCAG
 GCAGAAGAAGGCTTGGATGTGCCTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAGAGCCATGTGCTG
 AGGAGGACAGCGAGGAGAAGGCCGAACAGACGCCCTGTCCAGGAGAGTGACGACTATTTCCCAACCATC
 GACTTCCAGCAGCATTGTTTATAGCAGCCAAGAAAGCGTGAAAGAGTTGAAGGAGGAAACGAGGACAAA
 GACGAGAGTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAACCATGTGTGATCTGCCAGGGCGGCCTA
 AAAATGGCTGCATTGTTACGGCAAGACTGGACACCTCATGTCATGTTTACGTGTGCAAGAAGCTAAA
 AAAAAGAAACAAGCCCTGCCAGTGTGCAGACAGCCAATCCAAATGATTGTGCTAACTTACTTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207827 protein sequence
 Red=Cloning site Green=Tags(s)

MCNTNMSVSTEGAASTSQIPASEQETLVRPKPLLLKLLKSVGAQNDYTMKEIIFYIQYIMTKRLYDEK
 QQHIVYCSNDLLGDVFGVPSFSVKEHRKIYAMIYRNLVAVSQDSTLSSESRRQPEGSDLDKPLQAPP
 EEKPSDDLISRLSTSSRRRSISETEENTDELPGERHRKRRRSLSFDPSLGLCELREMGSGSSSSSSSS
 SESTETPSHQDLDDGVSEHSGDCLDQDSVSDQFSVEFEVESLDSEDSLDEGHELSEDEDEVYRVTVYQ
 TGESDTSFEGDPEISLADYWKCTSCNEMNPPLPSHCKRCWTLRENWLPDDKGGDKVEISEKAKLENSAQ
 AEEGLDVPDGKKTENDAKEPCEEDSEEKAEQTPLSQESDDYSQPSTSSSIVYSSQESVKELKEETQDK
 DESVSESSLNAIEPCVICQGRPKNGCIVHGKTGHLMSCFTCAKLLKRNKPCPVCQRPIQMIIVLYFN

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010786

ORF Size: 1470 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_010786.4](#)

RefSeq Size: 3124 bp

RefSeq ORF: 1470 bp

Locus ID: 17246

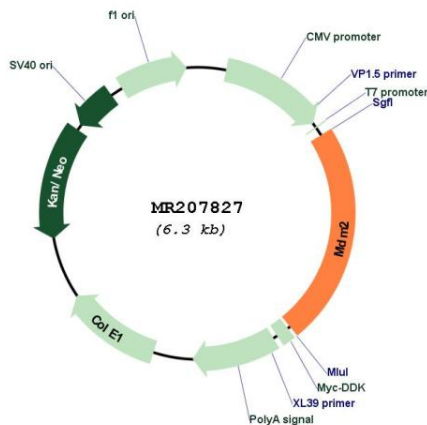
UniProt ID: [P23804](#)

Cytogenetics: 10 66.32 cM

MW: 54.6 kDa

Gene Summary: E3 ubiquitin-protein ligase that mediates ubiquitination of p53/TP53, leading to its degradation by the proteasome (PubMed:15195100, PubMed:21804542). Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain (By similarity). Also acts as a ubiquitin ligase E3 toward itself, ARRB1 and ARRB2 (PubMed:11588219). Permits the nuclear export of p53/TP53 (By similarity). Promotes proteasome-dependent ubiquitin-independent degradation of retinoblastoma RB1 protein (By similarity). Inhibits DAXX-mediated apoptosis by inducing its ubiquitination and degradation (By similarity). Component of the TRIM28/KAP1-MDM2-p53/TP53 complex involved in stabilizing p53/TP53 (By similarity). Also component of the TRIM28/KAP1-ERBB4-MDM2 complex which links growth factor and DNA damage response pathways (By similarity). Mediates ubiquitination and subsequent proteasome degradation of DYRK2 in nucleus (By similarity). Ubiquitinates IGF1R and SNAI1 and promotes them to proteasomal degradation (By similarity). Ubiquitinates DCX, leading to DCX degradation and reduction of the dendritic spine density of olfactory bulb granule cells (PubMed:25088421). Ubiquitinates DLG4, leading to proteasomal degradation of DLG4 which is required for AMPA receptor endocytosis (PubMed:14642282).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207827