

## Product datasheet for **MC206693**

### **Mdm2 (BC050902) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mdm2 (BC050902) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mdm2
Synonyms:	1700007J15Rik; AA415488; Mdm-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC050902  
 GGCCGGTGAGGAGCCGCCGCTTCTCGTCGCTCGAGCTCTGGAGCGACCATGGTCGCTCAGGCCCCGGCC  
 GCGGGGCTCCGCGCTCCCCGTGAAGGGTCGGAAGATGCGCGGGAAGTAGCAGCCGTCTGCTGGCGGAGC  
 GGGAGACCGACCGGACACCCCTGGGGGACCCTCTCGGATACCCGCGCTTCTCTCGGGCCCTCAGGCCA  
 ATGTGCAATACCAACATGTCTGTGTCTACCGAGGGTGTGCAAGCACCTCACAGATTCCAGCTTCGGAAC  
 AAGAGACTCTGGTTAGACAAAACCATTGCTTTTGAAGTTGTTAAAGTCCGTTGGAGCGCAAAACGACAC  
 TTACTACTATGAAAGAGATTATATTTTATATTGGCCAGTATATTAGTACTAAGAGTTATATGACGAGAAG  
 CAGCAGCACATTGTATTGTTCAAATGATCTCCTAGGAGATGTGTTGGAGTCCCAGTTCCTCTGTGA  
 AGGAGCACAGGAAAATATATGCAATGATCTACAGAAAATTTAGTGGCTGTAAAGTCAGCAAGACTCTGGCAC  
 ATCGCTGAGTGAGAGCAGACGTACGCTGAAGGTGGGAGTGATCTGAAGGATCCTTTGCAAGCGCCACCA  
 GAAGAGAAACCTTCATCTTCTGATTTAATTTCTAGACTGTCTACCTCATCTAGAAGGAGATCCATTAGTG  
 AGACAGAAGAGAACACAGATGAGCTACCTGGGAGCGGCACCGGAAGCGCCGAGTCCCTGTCTTTGA  
 TCCGAGCTGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGCGGCAGCAGCAGCAGTACGACGAGCAGC  
 AGCGAGTCCACAGAGACGCCCTCGCATCAGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCC  
 TGGATCAGGATTCAGTTTCTGATCAGTTTACGCTGGAATTTGAAGTTGAGTCTCTGGACTCGGAAGATTA  
 CAGCCTGAGTGACGAAGGCACGAGCTCTCAGATGAGGATGATGAGGTCTATCGGGTCACAGTCTATCAG  
 ACAGGAGAAAGCGATACAGACTCTTTTGAAGGAGATCCTGAGATTTCTTAGCTGACTATTGGAAGTGTA  
 CCTCATGCAATGAAATGAATCCTCCCCTCCATCACACTGCAAAAAGATGCTGGACCCTTCGTGAGAACTG  
 GCTTCCAGACGATAAGGGGAAAGATAAAGTGAAATCTCTGAAAAAGCCAAACTGAAAAACTCAGCTCAG  
 GCAGAAGAAGGCTTGGATGTGCCTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAGAGCCATGTGCTG  
 AGGAGGACAGCGAGGAGAAGGCCGAACAGACGCCCTGTCCCAGGAGAGTGACACTATTTCCAACCATC  
 GACTTCCAGCAGCATTGTTTATAGCAGCCAAGAAACGCTGAAAGAGTTGAAGGAGAAACGACAGGACAAA  
 GACGAGAGTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAACCATGTGTGATCTGCCAGGGGCGGCTA  
 AAAATGGCTGCATTGTTTACGGCAAGACTGGACACCTCATGTCTGTTTACGTTGCAAAAGAGTAAA  
 AAAAAGAAAACAAGCCCTGCCAGTGTGCAGACAGCCAATCCAATGATTGTGCTAACTTACTTCAACTAG  
 CTGACCTGCTCACAAAAATAGAATTTTATATTTCTAACTATATGACCCCAAAATAGACAACATGGGTAT  
 TATTTTTATACATTAAGCCAGAAAAGTCTTAGTCCACATAAAATTCATTATAATTTATCCTGGAGA  
 GTAAATATGGTGAATATTTTCTCTTTTAGGGAAATTTCACTTGTATTTTATATTTGTGTTTTAAG  
 TAATTTGCATTGGCTGTTTATATTTTCTTATATTTTAAATAATCTCCGCTTGAAGGACTTTGGAAGTG  
 TATGTGAGAAGTCTTTCCATCTCCTGCAGATGATGGTGGACCTCCTCATCAAGGGCTACAGAAGTACT  
 TGATTTCTGTTTTTTTTGTTAATAATAAGAACATTTAATTTATTTAGTGTCTTTCATGTAAGAGTTAAA  
 GACTATGTGAAGGATTGTATATTTAAGTTATTGAAATCTGAAACTGTAGTAATCTAAAATGTGTGAGTT  
 GTGGGCTGCAGAGAAGACTCAGCCAGTAAAGGCACCTGCTGTGTACCCCACTGACACACATTTGATCCT  
 TGAACCCCAAGAGAGTGAACCAGTTCACAAAGTTGTTCCCTGATCTTCAAATGGATGCACGCATGC  
 ACGCACACACACGCGCGCTGCGCAC  
 ACACAGTTTTAAAGGCATGAATTGCATCTGGTGGTATGTAAGTAAAACACACGCCTATTTTCCAGCAT  
 TTTTCCAGCTTTTGTGATAGGGGTGTGGCACAAGTGTGCAAGTTTGTCCAGGTTGAAAAGCCTGAGGCTG  
 GTAGAAGCGCCTTTTGCCTCAGCTCCGTGGTTCCTGGTGGTGCCTATGTTTCCAGGCTGACTTAGGC  
 TAGGTTTAGAAACCAGCCATTCAGAAAGACTGAATCAGAACATGGATAAAGTGAATCATTCTAAGATG  
 ACTCGTCTATCCATGTAGATTAATCTCCTGGTTCATAAATAGGCCTCTCCCTTTGATTGAAGGGTACGT  
 CTAAGTATAGAAAACATAAAACTGTAAGGTAGAGGAAGCGAAGGATAGCTTTGTATTAATGTTGCGTTAA  
 AGCTTCAGAGACAAGAACAAGAACAACCTCTCCACGTGACAGCATTGTAATAGGAGGCGGTGGTGCGGC  
 AGCCTGGGAGCTTCCAGTCCGATTTACAATAAAGTACCTTGTGTGTTATTAGTTCTTAAATGTTTATTT  
 AGAAATGGCATTGATGTTATTTTGGCAATAAATGTTTATTGAAGAATTGTGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** EcoRI-NotI  
**ACCN:** BC050902  
**Insert Size:** 1470 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC050902</a> , <a href="#">AAH50902</a>
<b>RefSeq Size:</b>	3014 bp
<b>RefSeq ORF:</b>	1470 bp
<b>Locus ID:</b>	17246
<b>Cytogenetics:</b>	10 66.32 cM
<b>Gene Summary:</b>	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 ARBB2 (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]