

## Product datasheet for MR229923

### Mdm2 (NM\_001288586) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mdm2 (NM\_001288586) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Mdm2  
**Synonyms:** 1700007J15Rik; AA415488; Mdm-2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229923 representing NM\_001288586  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAGAGATTATATTTTATATTGGCCAGTATATTGACTAAGAGTTATATGACGAGAAGCAGCAGC  
 ACATTGTGTATTGTTCAAATGATCTCCTAGGAGATGTGTTGGAGTCCCGAGTTTCTCTGTGAAGGAGCA  
 CAGGAAAATATATGCAATGATCTACAGAAATTTAGTGGCTGTAAGTCAGCAAGACTCTGGCAGATCGCTG  
 AGTGAGAGCAGACGTGAGCCTGAAGGTGGGAGTGTCTGAAGGATCCTTTGCAAGCGCCACCAGAAGAGA  
 AACCTTCATCTTCTGATTTAATTTCTAGACTGTCTACCTCATCTAGAAGGAGATCCATTAGTGAGACAGA  
 AGAGAACACAGATGAGCTACCTGGGAGCGGCACCGGAAGCGCCGAGGTCCCTGTCTTTGATCCGAGC  
 CTGGGTCTGTGTGAGCTGAGGGAGATGTGCAGCGCGGCAGCAGCAGCAGTAGCAGCAGCAGCAGCGAGT  
 CCACAGAGACGCCCTCGCATCAGGATCTTGACGATGGCGTAAGTGAGCATTCTGGTGATTGCCTGGATCA  
 GGATTCAGTTTCTGATCAGTTTAGCGTGGAAATTTGAAGTTGAGTCTCTGGACTCGGAAGATTACAGCCTG  
 AGTGACGAAGGGCAGGACTCTCAGATGAGGATGATGAGGTCTATCGGGTCACAGTCTATCAGACAGGAG  
 AAAGCGATACAGACTCTTTTGAAGGAGATCCTGAGATTTCTTAGCTGACTATTGGAAGTGTACCTCATG  
 CAATGAAATGAATCCTCCCTTCCATCACACTGCAAAAGATGCTGGACCCTTCGTGAGAAGTGGCTTCCA  
 GACGATAAGGGGAAAGATAAAGTGGAAATCTCTGAAAAAGCCAAACTGAAAACTCAGCTCAGGCAGAAG  
 AAGGCTTGGATGTGCCTGATGGCAAAAAGCTGACAGAGAATGATGCTAAAAGGCCATGTGCTGAGGAGGA  
 CAGCGAGGAGAAGGCCGAACAGACGCCCTGTCCAGGAGAGTGACGACTATTCCAACCATCGACTTCC  
 AGCAGCATTGTTTATAGCAGCCAAGAAAGCGTGAAGAGTTGAAGGAGGAAACGCAGGACAAAGACGAGA  
 GTGTGGAATCTAGCTTCTCCCTGAATGCCATCGAACCATGTGTGATCTGCCAGGGGCGGCTAAAAATGG  
 CTGCATTGTTACGGCAAGACTGGACACCTCATGTGATGTTTACGTGTGCAAAGAAGCTAAAAAAGA  
 AACAGCCCTGCCAGTGTGCAGACAGCCAATCCAATGATTGTGCTAACTTACTTCAAC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>ORF Size:</b>	1320 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001288586.2</a> , <a href="#">NP_001275515.1</a>
<b>RefSeq Size:</b>	3037 bp
<b>RefSeq ORF:</b>	1323 bp
<b>Locus ID:</b>	17246
<b>UniProt ID:</b>	<a href="#">P23804</a>
<b>Cytogenetics:</b>	10 66.32 cM
<b>MW:</b>	49.8 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]