

## Product datasheet for **SC118660**

### MDM2 (NM\_002392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MDM2 (NM_002392) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDM2
Synonyms:	ACTFS; hdm2; HDMX; LSKB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_002392 edited  
 AGGGCGTCGTGCTTCCGCGCGCCCCGTGAAGGAACTGGGGAGTCTTGAGGGACCCCGA  
 CTCCAAGCGCAAAACCCCGGATGGTGAGGAGCAGGCAATGTGCAATACCAACATGTCT  
 GTACCTACTGATGGTGCTGTAACCACCTCACAGATTCCAGCTTCGGAACAAGAGACCCTG  
 GTTAGACCAAAGCCATTGCTTTTGAAGTTATTAAGTCTGTTGGTGCACAAAAAGACACT  
 TATACTATGAAAGAGGTTCTTTTTATCTTGCCAGTATATTGACTAAACGATTATAT  
 GATGAGAAGCAACAACATATTGTATATTGTTCAAATGATCTTCTAGGAGATTTGTTGGC  
 GTGCCAAGCTTCTCTGTGAAAGAGCACAGGAAAATATATACCATGATCTACAGGAACTTG  
 GTAGTAGTCAATCAGCAGGAATCATCGGACTCAGGTACATCTGTGAGTGAGAACAGGTGT  
 CACCTTGAAGGTGGGAGTGATCAAAAGGACCTTGTACAAGAGCTTCAGGAAGAGAAAACCT  
 TCATCTTCACATTTGGTTTCTAGACCATCTACCTCATCTAGAAGGAGAGCAATTAGTGAG  
 ACAGAAGAAAATTCAGATGAATTATCTGGTGAACGACAAAAGAAAACGCCACAAATCTGAT  
 AGTATTTCCCTTTCCTTGTGAAAGCCTGGCTCTGTGTGTAATAAGGGAGATATGTTGT  
 GAAAGAAGCAGTAGCAGTGAATCTACAGGACGCCATCGAATCCGGATCTTGATGCTGGT  
 GTAAGTGAACATTTCAGGTGATTGGTTGGATCAGGATTCAGTTTCAGATCAGTTTAGTGTA  
 GAATTTGAAGTTGAATCTCTCGACTCAGAAGATTATAGCCTTAGTGAAGAAGGACAAGAA  
 CTCTCAGATGAAGATGATGAGGTATATCAAGTTACTGTGTATCAGGCAGGGGAGAGTGAT  
 ACAGATTCATTTGAAGAAGATCCTGAAATTTCTTAGCTGACTATTGAAATGCACCTTCA  
 TGCAATGAAATGAATCCCCCCTTCCATCACATTGCAACAGATGTTGGGCCCTTCGTGAG  
 AATTGGCTTCTGAAAGATAAAGGGAAAGATAAAGGGGAAATCTCTGAGAAAAGCCAAACTG  
 GAAAATCAACACAAGCTGAAGAGGGCTTTGATGTTCTGATTGTAAAAAACTATAGTG  
 AATGATCCAGAGAGTCATGTGTTGAGGAAAATGATGATAAAATTACACAAGCTTCACAA  
 TCACAAGAAAGTGAAGACTATTCTCAGCCATCACTTCTAGTAGCATTATTTATAGCAGC  
 CAAGAAGATGTGAAAGAGTTTGAAGGGAAGAAAACCCAAGACAAAGAAGAGAGTGTGAA  
 TCTAGTTTGCCTTAAATGCCATTGAACCTTGTGTGATTTGTCAAGGTCGACCTAAAAAT  
 GGTTGCATTGTCCATGGCAAAACAGGACATCTTATGGCCTGCTTACATGTGCAAAGAAG  
 CTAAGAAAAGGAATAAGCCCTGCCAGTATGTAGACAACCAATTCAAATGATTGTGCTA  
 ACTTATTTCCCTAGTTGACCTGTCTATAAGAGAATTATATTTCTAACTATATAACCC  
 TAGGAATTTAGACCACCTGAAATTTATTCACATATATCAAAGTGAGAAAATGCCT

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002392 unedited  
 GCAACGCAATTCGCACGAGCCTCCCCGGATTAGTGCGTACGAGCGCCAGTGCCCTGGCC  
 CGGAGAGTGGAATGATCCCCGAGGCCAGGGCGTCGTGCTTCCGCGCGCCCCGTGAAGGA  
 AACTGGGGAGTCTTGAGGGACCCCGACTCCAAGCGCAAAACCCCGGATGGTGAGGATC  
 AGGTAATGTGCAATACCAACATGTCTGTACCTACTGATGGTGCTGTAACCACCTCACAG  
 ATTCAGCTTCGGAACAAGAGACCCTGGTTAGACCAAAGCCATTGCTTTTGAAGTTATTA  
 AAGTCTGTTGGTGCACAAAAAGACACTTATACTATGAAAGAGGTTCTTTTTATCTTGGC  
 CAGTATATTATGACTAAACGATTATATGATGAGAAGCAACAACATATTGTATATTGTTCA  
 AATGATCTTCTAGGAGATTTGTTTGGCCTGCCAAGCTTCTCTGTGAAAGAGCACAGGAAA  
 ATATATACCATGATCTACAGGAACCTTGGTAGTAGTCAATCAGCAGGAATCATCGGACTCA  
 GGTACATCTGTGAGTGAGAACAGGTGTCACCTTAAAAGTGGGAGTGATCAAAAGGACCTT  
 GTACAAGAGCTTCANGAAGAGAAACCTTCATCTTCACATTTGGTTTCTAGACCATCTACC  
 TCATCTAGAAAGGAGAGCCATTAGTGAGACAGAAGAAAATTCATATGAATTATCTGGTGA  
 ACGACCAANAAAGCGCCCCAACCTGATAGTATTTCCCTTTCCTTTTGTGAAAAGCCTG  
 CCTCTGTGTGGTAAAAAGGGAGATATGTTGGGAAAAGAAGCATTANCCGTGGAATCTACA  
 GGGCCCCATTGCAATCCGGATCTTGATGCCTGGGGTAAAGGAAA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002392 unedited AAAANNTTGGACTCTGGACCCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTAAAT AAGTTACATTTAAATGTCATATACACTATTTAAGAAAAAAAAAAACCAGTACTTCTCATT TAAGACAGAGTAGAAATTATTTAAAATTAGGAGTTGGTGTAAAGGATGAGCTACATATTC AAGTCAAATTATAGTAAGTATTCCTACTATCCACTACCAAAGTAGGTCAATTATACTAAAG AGAAGAAATCTATGTGAATTGAGGCATTTCTCACTTTGATATATGTGAATAAATTTTCAG GTTGCTAAATTCCTAGGGTTATATAGTTAGAAATATATAATTCTTTATAGACAGGTCA ACTAGGGGAAATAAGTTAGCACAAATCATTGAATTGGTTGTCTACATACTGGGCAGGGCT TATTCCTTTTCTTAGCTTCTTTGCACATGTAAGCAGGCCATAAGATGCCTGTTTTGCG CATGGACAATGCAACCATTTTTAGGTCGACCTTGACAAATCACACAAGGTTCAATGGCAT TAAGGGGCAAACTAGATTCCACTCTCTTTGTCTTGGGTTTCTTCCCTTTCAAACCT CTTTCACATCTTCTGGCTGCTATAAATAATGCTACTAGAAGTTGATGGCTGAGAATAGT CTTCACTTTCTGTGATTGTGAAGCTGNGTAATTTTATCATCATTTTCTCACACATGAC TCTCTGGATCATCACTATAGGTTTTTACATCACGAACCTCAAAGCCTCTCAGCTTGGGT GAGTTTCCAGTTGGCTTTTTAGAAATCCCTTATCTTTCCCTTTATCTCAGGAGCCCAT TTCACCAAGGCCAACATTTTGCAATTTGTGAAAGGGGGGAATCTTCATTGCTGAAAGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002392
<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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>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_002392.2</a> , <a href="#">NP_002383.2</a>
<b>RefSeq Size:</b>	2357 bp
<b>RefSeq ORF:</b>	1494 bp

<b>Locus ID:</b>	4193
<b>UniProt ID:</b>	<a href="#">Q00987</a>
<b>Cytogenetics:</b>	12q15
<b>Domains:</b>	zf-RanBP, MDM2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Bladder cancer, Cell cycle, Chronic myeloid leukemia, Endocytosis, Glioma, Melanoma, p53 signaling pathway, Pathways in cancer, Prostate cancer, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>