

## Product datasheet for **SC113183**

### MDM1 (NM\_020128) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MDM1 (NM_020128) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113183 sequence for NM_020128 edited (data generated by NextGen Sequencing)

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ATGCCGGTGCCTCAAGGGCTGAGTGAATACCAGAGGAACCTCCTGTGGAAAAAGTCT
TATTTGTCCGAGTCTTGTAAATCCTCCGTGGGGCGAAAGTACCCATGGGCTGGACTTAGA
TCAGATCAATTAGGCATCACGAAAGAGCCAAGTTTTATTTCAAAAAGAAGAGTCCCTTAC
CATGACCCACAGATTTCAAAATCTCTGGAGTGGAAATGGAGCTATCTCAGAGAGCAATGTG
GTTGCATCACCAGAACCAGAAGCCCCGGAACACCAAAATCACAAGAAGCAGAACAAAAG
GATGTTACTCAAGAAAGAGTTCACCTACTAGAACTCCAGGGTCCCAAAGAACCAGA
TCTCACTCTGCAGACTCCAGAGCTGAAGGGCTTCAGATGTGGAAAATAATGAGGGTGTA
ACAAACCATACACCAGTTAATGAAAATGTGGAAGTGAACATTCTACCAAGGTTCTTTCA
GAAAATGTAGATAATGGGGTAGGCATATTCAGTGCATTTCTTTTCAAAAGCATAGAATTC
TTCATTGGTTTCATTGTCAATTTCTGTAATATTACATTTTGTGTTTCAGAATTTTCCATTG
TTGTTTTCTTGCTAATGTCTATAAGAATAGTTGATAACAGGCTGTTGACTTTAGTTATT
GTGAATTAG
```

Clone variation with respect to NM\_020128.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_020128 unedited CTAATTCGGCACGAGGGCCGGCCGAGGCTTTGCTAGGGAACACTGTTATCGCCCCGCC CCTCGGAGCTTTTTCTCCAGTAACTGTCTGGAGTAGCGGGGGCTCCGGCCGGGGCGACA TGCCGGTGCCTCAAGGGGCTGAGTGAATACCAGAGGAACCTCTGTGGAAAAAGTCTT ATTTGTCCGAGTCTTGAATTCCTCCGTGGGGCGAAAGTACCCATGGGCTGGACTTAGAT CAGATCAATTAGGCATCACGAAAGAGCCAAGTTTTATTTCAAAAAGAAGAGTCCCTTACC ATGACCCACAGATTTCAAAATCTCTGGAGTGAATGGAGCTATCTCAGAGAGCAATGTGG TTGCATCACAGAACAGAAAGCCCGGAAACACCAAAATCACAAGAAGCAGAACAAAAGG ATGTTACTCAAGAAAGAGTTCACCTACTAGAAGCTCCAGGGTCCCAAAAAGAACCAGAT CTCACTCTGCAGACTCCAGAGCTGAAGGGGCTTCAGATGTGAAAATAATGAGGGTGAA CAAACCATACCCAGTTAATGAAATGTGGAAGTGAACATTCTACCAAGTTCTTTTCAG AAAATGTAGATAATGGGGTAGGCATATTCAGTGCATTTCTTTTCAAAGCATAGAATTCT TCATTGGTTTCATTGTCATTTCTGTAATATTACATTNNTGTGTTTCAGAATTTCCATTG TTGNTTCTTGCTAATGGCTATAAGAATAGTTGATAACAGGGCTGTGACTTTAGTTATT GGAATAGTTCTATTCTGACTACTCGCTATTTTGTAGTAGTTGACTATGATAATCTGGT TATTGGATGGACCTNCTGCGTCTGGATTATTCATCATATATTAGCACTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020128
<b>Insert Size:</b>	4200 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="#">NM_020128.1</a> , <a href="#">NP_064513.1</a>
<b>RefSeq Size:</b>	2092 bp
<b>RefSeq ORF:</b>	669 bp
<b>Locus ID:</b>	56890
<b>UniProt ID:</b>	<a href="#">Q8TC05</a>
<b>Cytogenetics:</b>	12q15
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a microtubule-binding nuclear protein that localizes to the centrioles of dividing cells and differentiating multiciliated cells and negatively regulates centriole duplication. The encoded protein is closely associated with the centriole barrel, and resides in the centriole lumen. Naturally-occurring mutations in the orthologous mouse gene are associated with age-related retinal degeneration. [provided by RefSeq, Feb 2019]

Transcript Variant: This variant (2) lacks many 3' exons and differs at the 3' end compared to variant 1. This results in a frame-shift and a much shorter isoform (2) with a distinct C-terminus compared to isoform 1.