

## Product datasheet for **MR230179**

### **Mdm4 (NM\_001302803) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mdm4 (NM_001302803) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mdm4
Synonyms:	4933417N07Rik; AA414968; AL023055; AU018793; AU021806; C85810; Mdmx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230179 representing NM\_001302803  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACATCACATTCCACCTCGGCCAGTGTTCAGCATCTGACAGTGCTTGCAGAATTTCTCGGAACAAA  
 TTAGTCAGGTGCGGCCAAAACCTGCAGCTTTTGAAGATTTGCATGCAGCAGGTGCGCAGGGGAAGTATT  
 CACCATGAAAGAGGTAATGCACTATCTAGGCCAGTATATAATGGTGAAGCAGCTCTATGATCAACAGGAG  
 CAACATATGGTATACTGTGGTGGAGATCTTTGGGAGATCTACTTGGATGTGAGACTTTTCTGTGAAAG  
 ATCCAAGCCCTCTATGACATGCTAAGAAAGAATCTTGTACATCAGCTTCTATTAACACAGATGCTGC  
 TCAGACTCTCGCTCTCGCACAGGATCACACTATGGATTTTCCAAGTCAAGACCGACTGAAGCAGGTGCA  
 ACAGAATACTCCAATCCCAGAAAAAGAACTGAAGAAGAGGATACTCACACTGCCTACCTCACGACATA  
 AATGCAGAGACTCCAGAGCAGATGAAGACTTGATAGAACATTTATCTCAAGATGAGACATCTAGGCTTGA  
 CCTTGATTTTGGAGAGTGGGACGTTGCTGGCCTGCCTTGGTGGTTTCTAGGGAATTTGAGAAACAACTGT  
 ATTCCTAAAAGTAATGGCTCAACTGATTTACAGACAAATCAGGATATAGGTAAGTACTGCCATTGTTTCAGACA  
 CTACGGATGATTTGTGGTTTTAAATGAGACCGTGTGAGAGCAATTAGGTGTTGGAATAAAAAGTTGAAGC  
 TGCTAATTTCTGAGCAAACAAGTGAAGTAGGGAAAAAAGTAACAAGAAGACGGTGGAGGTGGGAAAGGAT  
 GATGATCTTGAGGACTCCAGGTCCTTGAGCGATGATACTGACGTGGAACCTACCTCTGAGGATGAGTGGC  
 AGTGTACGGAATGCAAGAAGTTTAAATCTCCAAGCAAGAGGACTGTTTTCGTTGCTGGGCTTGAGAAA  
 GGATTGGTATTCGGATTGTTCTAAATTAACCTATTCCCTATCTACATCTAATATTACTGCCATACCTGAA  
 AAGAAGGACAATGAAGGAATTGATGTTCCCGATTGTAGGAGAACCATTTCAGCTCCTGTTGTTAGGCCTA  
 AAGATGGATATTTAAAGGAGGAAAAAGCCAGGTTTGACCTTGCAACTCAGTGGGATTTTGGATTTGGC  
 TCATAGTTCTGAAAGCCAGGAGATCATCTCAAGCGCGAGAGAACAACAGATATTTTTCTGAGCAGAAA  
 GCTGAAACAGAAAGTATGGAAGATTTCCAGAATGTCTTGAAGCCGTGTAGCTTATGTGAAAAAGCCCTC  
 GGGATGGGAACATTATTCATGGGAAGACGACCATCTGACGACATGTTTCCACTGTGCCAGGAGACTGAA  
 GAAGTCTGGGCTTCGTGCTCCTGTTGAAGAAAGAGATTCAGTTGGTTATTAAGTTTTTATAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230179 representing NM\_001302803  
 Red=Cloning site Green=Tags(s)

MTSHSTSAQCSASDSACRISSEQISQVRPKLQLLKILHAAGAQGEVFTMKEVMHYLGQYIMVKQLYDQQE  
 QHMVYCGDLLGDLLGCQSFVSKDPSPLYDMLRKNLVTASINTDAAQTLALAQDHTMDFPSQDRCLKHGA  
 TEYSNPKRTEEEEDHTLPTSRHKCRDSRAEDELIEHLSQDETSRLDLDFEEDVAGLPWWFLGNLRNNC  
 IPKSNSTDLQTNQDIGTAIVSDTTDDLWFLNETVSEQLGVGIKVEANSEQTSEVGKTSNKKTVEVGKD  
 DDLEDSRSLSDTDVELTSEDEWQTECKKFNPSKRYCFRCWALRKDWYSDCSKLTHLSLSTSNITAIPE  
 KKDNEGIDVPCRRRTISAPVVRPKDGYLKEEKPRFPCNSVGFLLAHSSESQEIISSAREQTDIFSEQK  
 AETEMEDFQNVLKPCSLCEKRPDGNIIHGKTSHLTTCFHCARRLLKSGASCPACKKEIQLVIKVFIA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001302803

**ORF Size:** 1467 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\\_001302803.1](#), [NP\\_001289732.1](#)
**RefSeq Size:** 7220 bp

**RefSeq ORF:** 1470 bp

**Locus ID:** 17248

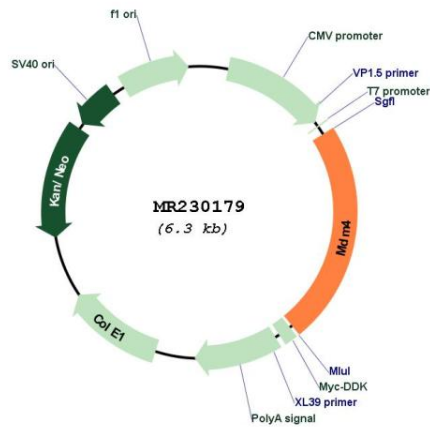
**UniProt ID:** [O35618](#)

**Cytogenetics:** 1 57.75 cM

**MW:** 55 kDa

**Gene Summary:** This gene encodes a protein that has been shown to negatively regulate the activity of the tumor suppressor protein p53. Homozygous knockout mice exhibit embryonic lethality as a result of p53-dependent apoptosis and cell cycle arrest. Amplification of this gene or overexpression of the encoded protein has been linked to a range of human cancers. A pseudogene has been identified on the X chromosome. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for MR230179