

## Product datasheet for **MR230192**

### **Mdm4 (NM\_001302802) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mdm4 (NM_001302802) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mdm4
Synonyms:	4933417N07Rik; AA414968; AL023055; AU018793; AU021806; C85810; Mdmx
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230192 representing NM\_001302802  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACATCACATTCCACCTCGGCCAGTGTTCAGCATCTGACAGTGCTTGCAGAATTTCTCGGAACAAA  
 TTAGTCAGCAGGTGCGGCCAAAACCTGCAGCTTTTGAAGATTTTGCATGCAGCAGGTGCGCAGGGGAAGT  
 ATTCACCATGAAAAGAGGTAATGCACTATCTAGGCCAGTATATAATGGTGAAGCAGCTCTATGATCAACAG  
 GAGCAACATATGGTATACTGTGGTGGAGATCTTTTGGGAGATCTACTTGGATGTCAGAGCTTTTCTGTGA  
 AAGATCCAAGCCCTCTCTATGACATGCTAAGAAAGAATCTTGTACATCAGCTTCTATTAACACAGATGC  
 TGCTCAGACTCTCGCTCTGCACAGGATCACACTATGGATTTTCCAAGTCAAGACCGACTGAAGCACGGT  
 GCAACAGAATACTCCAATCCCAGAAAAAGAACTGAAGAAGAGGATACTCACACTGCCTACCTCACGAC  
 ATAAATGCAGAGACTCCAGAGCAGATGAAGACTTGATAGAACATTTATCTCAAGATGAGACATCTAGGCT  
 TGACCTTGATTTTGGAGAGTGGGACGTTGCTGGCCTGCCTTGGTGGTTTCTAGGGAAATTTGAGAAAACA  
 TGATTCCCTAAAAGTAATGGCTCAACTGATTTACAGACAAATCAGGATATAGGACTGCCATTGTTTCAG  
 AACTACGGATGATTTGTGGTTTTAAATGAGACCGTGTGAGAGCAATTAGGTGTTGGAATAAAAGTTGA  
 AGCTGCTAATTCTGAGCAACAAGTGAAGTAGGGAAAACAAGTAAACAAGAAGACGGTGGAGGTGGGAAA  
 GATGATGATCTTGAGGACTCCAGGTCCTTGAGCGATGATACTGACGTGGAACCTACCTCTGAGGATGAGT  
 GGCAGTGTACGGAATGCAAGAAGTTAATTCTCCAAGCAAGAGGTAAGTGTTCGTTGCTGGGCCTTGAG  
 AAAGGATTGGTATTCGGATTGTTCTAAATTAACCTATCCCTATCTACATCTAATATTACTGCCATACCT  
 GAAAAGAAGGACAATGAAGGAATTGATGTTCCCGATTGTAGGAGAACCATTTAGCTCCTGTTGTTAGGC  
 CTTAAAGATGGATATTTAAAGGAGGAAAAGCCAGGTTTGACCCTTGCAACTCAGTGGGATTTTGGATT  
 GGCTCATAGTTCTGAAAGCCAGGAGATCTCAAGCGCGAGAGAACAACAGATATTTTTCTGAGCAG  
 AAAGCTGAAACAGAAAGTATGGAAGATTTCCAGAATGTCTTGAAGCCGTGTAGCTTATGTAAAAAAGGC  
 CTCGGGATGGGAACATTATTCATGGGAAGACGAGCCATCTGACGACATGTTTCCACTGTGCCAGGAGACT  
 GAAGAAGTCTGGGGCTTCGTGCTGCTGTGTAAGAAAGAGATTCAGTTGGTTATTAAGTTTTTATAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230192 representing NM\_001302802  
 Red=Cloning site Green=Tags(s)

MTSHSTSAQCSASDSACRISSEQISQVVRPKLQLLKLILHAAGAQGEVFTMKEVMHYLGQYIMVKQLYDQQ  
 EQHMYVCGDGLLDLLGCQSFVSKDPSPLYDMLRKNLVTASINTDAAQTLALAQDHTMDFPSQDRCLKHG  
 ATEYSNPKRTEEDHTLPTSRHKCRDSRAEDLIEHLSDQETSRLDLDFEEDVAGLPWWFLGNLRNN  
 CIPKSNGSTDLQTNQDIGTAIVSDTTDDLWFLNETVSEQLGVGKVEANSEQTSEVGKTSNKKTVEVGK  
 DDDLEDNRSLSDDTDELTSSEWQCTECKKFNSPSKRYCFRCWALRKDWYSDCSKLTHSLSTSNITAIP  
 EKKDNEGIDVPCRRRTISAPVVRPKDGYLKEEKPRFPCNSVGFLLDLAHSSESQEIISAREQTDIFSEQ  
 KAETESMEDFQNVLKPCSLCEKRPRDGNIIHGKTSHLTTCFHCARRLKKSGASCPACKKEIQLVIKVFIA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI



**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\\_001302802.1](#), [NP\\_001289731.1](#)

**RefSeq Size:** 7107 bp

**RefSeq ORF:** 1473 bp

**Locus ID:** 17248

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

**Cytogenetics:** 1 57.75 cM

**MW:** 55.5 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]