

Product datasheet for **MR230191**

Mdm4 (NM_001302801) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdm4 (NM_001302801) 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:

>MR230191 representing NM_001302801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACATCACATTCCACCTCGGCCAGTGTTCAGCATCTGACAGTGCTTGCAGAATTTCTCGGAACAAA
 TTAGTCAGCAGGTGCGGCCAAAACCTGCAGCTTTTGAAGATTTTGCATGCAGCAGGTGCGCAGGGGAAGT
 ATTCACCATGAAAAGAGGTAATGCACTATCTAGGCCAGTATATAATGGTGAAGCAGCTCTATGATCAACAG
 GAGCAACATATGGTATACTGTGGTGGAGATCTTTTGGGAGATCTACTTGGATGTCAGAGCTTTTCTGTGA
 AAGATCCAAGCCCTCTCTATGACATGCTAAGAAAGAATCTTGTACATCAGCTTCTATTAACACAGATGC
 TGCTCAGACTCTCGCTCTGCACAGGATCACACTATGGATTTTCCAAGTCAAGACCGACTGAAGCACGGT
 GCAACAGAATACTCCAATCCCAGAAAAAGAACTGAAGAAGAGGATACTCACACTGCCTACCTCACGAC
 ATAAATGCAGAGACTCCAGAGCAGATGAAGACTTGATAGAACATTTATCTCAAGATGAGACATCTAGGCT
 TGACCTTGATTTTGGAGAGTGGGACGTTGCTGGCCTGCCTTGGTGGTTTCTAGGGAAATTTGAGAAAACA
 TGATTCCCTAAAAGTAATGGCTCAACTGATTTACAGACAAATCAGGATATAGGTAAGTACTGCCATTGTTTCAG
 AACTACGGATGATTTGTGGTTTTAAATGAGACCGTGTGAGAGCAATTAGGTGTTGGAATAAAAGTTGA
 AGCTGCTAATTCTGAGCAACAAGTGAAGTAGGGAAAACAAGTAAACAAGAAGACGGTGGAGGTGGGAAAAG
 GATGATGATCTTGAGGACTCCAGGTCCTTGAGCGATGATACTGACGTGGAACCTACCTCTGAGGATGAGT
 GGCAGTGTACGGAATGCAAGAAGTTAATTCTCCAAGCAAGAGGTAAGTGTTCGTTGCTGGGCCTTGAG
 AAAGGATTGGTATTCGGATTGTTCTAAATTAACCTATCCCTATCTACATCTAATATTACTGCCATACCT
 GAAAAGAAGGACAATGAAGGAATTGATGTTCCCGATTGTAGGAGAACCATTTGAGCTCCTGTTGTTAGGC
 CTTAAAGATGGATATTTAAAGGAGGAAAAGCCAGGTTTGACCCTTGCAACTCAGTGGGATTTTGGATTT
 GGCTCATAGTTCTGAAAGCCAGGAGATCTCAAGCGCGAGAGAACAACAGATATTTTTCTGAGCAG
 AAAGCTGAAACAGAAAGTATGGAAGATTTCCGAATGTCTTGAAGCCGTGTAGCTTATGTAAAAAAGGC
 CTCGGGATGGGAACATTATTCATGGGAAGACGAGCCATCTGACGACATGTTTCCACTGTGCCAGGAGACT
 GAAGAAGTCTGGGGCTTCGTGCTGCTGTGTAAGAAAGAGATTCAGTTGGTTATTAAGTTTTTATAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230191 representing NM_001302801
 Red=Cloning site Green=Tags(s)

MTSHSTSAQCSASDSACRISSEQISQVVRPKLQLLKLILHAAGAQGEVFTMKEVMHYLGQYIMVKQLYDQQ
 EQHMYVCGDGLLDLLGCQSFVSKDPSPLYDMLRKNLVTASINTDAAQTLALAQDHTMDFPSQDRLKHG
 ATEYSNPKRTEEDHTLPTSRHKCRDSRAEDLIEHLSDQETSRLDLDFEEDVAGLPWWFLGNLRNN
 CIPKSNSTDLQTNQDIGTAIVSDTTDDLWFLNETVSEQLGVGKVEANSEQTSEVGKTSNKKTVEVGK
 DDDLEDNRSLSDDTVELTSEDEWQCTECKKFNSPSKRYCFRCWALRKDWYSDCSKLTHSLSTSNITAIP
 EKKDNEGIDVPCRRRTISAPVVRPKDGYLKEEKPRFPCNSVGFLLDLAHSSESQEIISAREQTDIFSEQ
 KAETESMEDFQNVLKPCSLCEKRPRDGNIIHGKTSHLTTCFHCARRLKKSGASCPACKKEIQLVIKVFIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

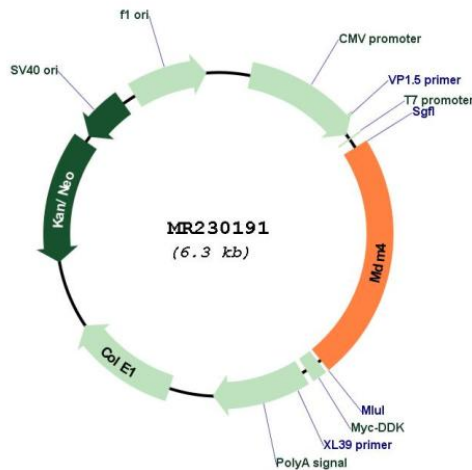
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001302801

ORF Size:

1470 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_001302801.1](#), [NP_001289730.1](#)

RefSeq Size: 7223 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]