

Product datasheet for **MC227284**

Mdm4 (NM_001302804) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mdm4 (NM_001302804) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mdm4
Synonyms: 4933417N07Rik; AA414968; AL023055; AU018793; AU021806; C85810; Mdmx
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227284 representing NM_001302804
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTTTCCAAGTCAAGACCGACTGAAGCACGGTGCAACAGAATACTCCAATCCCAGAAAAAGAACTG
 AAGAAGAGGATACTCACACTGCCTACCTCACACATAAATGCAGAGACTCCAGAGCAGATGAAGACTT
 GATAGAACATTTATCTCAAGATGAGACATCTAGGCTTGACCTTGATTTTGAGGAGTGGGACGTTGCTGGC
 CTGCCCTTGGTGGTTTCTAGGGAATTTGAGAACTGTATTCCCTAAAAGTAATGGCTCAACTGATTAC
 AGACAAATCAGGATATAGGTACTGCCATTGTTTCAGACTACGGATGATTTGTGGTTTTAAATGAGAC
 CGTGTCAGAGCAATTAGGTGTTGGAATAAAAGTTGAAGCTGCTAATTCTGAGCAAACAAGTGAAGTAGGG
 AAAACAAGTAACAAGAAGACGGTGGAGTGGGAAAGGATGATGATCTTGAGGACTCCAGGTCCTTGAGCG
 ATGATACTGACGTGGAACCTACCTCTGAGGATGAGTGGCAGTGTACGGAATGCAAGAAGTTAATTCTCC
 AAGCAAGAGGTAAGTGTTCGTTGCTGGCCTTGAGAAAGGATTGGTATTCGGATTGTTCTAAATTAAC
 CATTCCCTATCTACATCTAATATTACTGCCATACCTGAAAAGAAGGACAATGAAGGAATTGATGTTCCCG
 ATTGTAGGAGAACCATTTCAGCTCCTGTTGTTAGGCCTAAAGATGGATATTTAAAGGAGGAAAAGCCAG
 GTTTGACCCTTGCAACTCAGTGGGATTTTGGATTTGGCTCATAGTTCTGAAAGCCAGGAGATCATCTCA
 AGCGCGAGAGAACAACAGATATTTTTCTGAGCAGAAAGCTGAAACAGAAAGTATGGAAGATTTCCAGA
 ATGCTTTGAAGCCGTGTAGCTTATGTGAAAAAGGCCTCGGGATGGGAACATTATTCATGGGAAGACGAG
 CCATCTGACGACATGTTTCCACTGTGCCAGGAGACTGAAGAAGTCTGGGGCTTCGTCTGCTGTTAAG
 AAAGAGATTCAGTTGGTTATTAAGTTTTATAGCATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001302804



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Insert Size:	1089 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001302804.1</u> , <u>NP_001289733.1</u>
RefSeq Size:	7194 bp
RefSeq ORF:	1089 bp
Locus ID:	17248
UniProt ID:	<u>Q35618</u>
Cytogenetics:	1 57.75 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) uses an alternate splice site in an internal exon, compared to variant 1. This variant represents translation initiation at a downstream AUG compared to variant 1; the 5'-most initiation codon, as used in variant 1, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG to encode an isoform (3) that has a shorter N-terminus, compared to isoform 1.</p>