

## Product datasheet for **MR216514**

### **Mdm1 (NM\_001162905) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mdm1 (NM_001162905) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mdm1
Synonyms:	Arrd2; Mdm-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR216514 representing NM\_001162905  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCTGCGCTTCAAGGGCTGAGTGAATACCAGAGAACTTCTGTGGAAAAAGTCCTATTTGTCAG  
 AGTCTTATAATCCCTCAGTGGGACAAAAGTACTCATGGGCAGGACTTAGATCGGATCAGTTGGGGATCAC  
 GAAAGAACCAGGTTTTATTTCAAAAAGAAGAGTCCCTACCATGACCCTCAGATTTCAAAAATACCTGGAG  
 TGGAACGGAACCGTCAGAAAAGAAGGATACGCTTGTCCCACCAGAACCCAGGCCTTTGGAACGCCAAAGC  
 CACAAGAGGCTGAGCAAGGAGAAGATGCCAATCAAGAAGCAGTTCTCTACTAGAGGCCTCCAGGTTCC  
 CAAGAGAACTCGGTCTATTCTGCGGACTCGAGAGCTGAAGGGTTTTCAGACACTGTGAAAAAGCACCGAG  
 GGTGTACGAGAAGCCATGCGCCAGTTAGCGCGGATGTGGAGCTGAGACCTCCAGCAAACAACCTCTCT  
 CCCAGAGCATAGATCCCAGGTTTTCCGTAATAAAAAGCCAAATTATTCCACAGTTCCAAGCAATACATT  
 CACCCACGAGACTGAATACAAGCGAAATTTCAAGGGTTTAACTCCAGTGAAGGAACCAAAGTCAAGAGAG  
 TATTTGAAAGGAAACAGCAGTCTGGAGATGCTGACTCCAGTAAAGAAGGCAGATGAGCCTTAGACTTAG  
 AAGTAGACATGGCGTCGGAAGACTCAGACCAGTCTGTAAGAAGCCTGCTTCATGGAGACACCAAAGGCT  
 TGGAAAAGTGAATTCTGAATATAGAGCAAAGTTCTGAGCCCAGCCCAGTATTTCTATAAAGCTGGAGCT  
 TGGACCCGGTGAAGGAGAACCTGTCAAACCAGGGTTCTCTAAATGCCATGTGGTATGCAGAGGTTAAGG  
 AGCTCCGAGAAAAGGCCGAATCTTACAGGAAGCGAGTTACAGGGGACACATTTTTCTCGGGACCATCTGAA  
 CCAGATTATGTCGGACAGCAACTGCTGTTGGGACGCTCCTCAGTCACAAGCTCGGAAGGCACCGTCAGT  
 AGCAACATCCGAGCACTGGATCTTGCTGGAGACCTTACAAACCACAGGACCCCCAGAAAACCCCTCCTA  
 CCAAAGTGAAGAAAAGAAAAGTTGCCTCGGGAGAGCAGCCCTGAAAACTCCACCAGGAGACTGGAGAT  
 GCCAGAGCCTGCCGCTCGGTACAGGAGGAAGCTGGCTTGGGATGCTGAGGAGAGCACGAAGGAAGACACC  
 CAGGAGGAGCCCAGGGCGGAGGAGGACGGGAGAGAGGAGAGGACAGGACAAGCAGACCTGTGCGGTAG  
 AGCTGGAGAAACCGGACACACAGACACCAAGGCAGACAGACTGACAGAAGGGTCGGAGACATCTTCTGT  
 TTCCTCAGGGAAGGGAGGAGGCTTCTACACCGAGGCTGAGAGAACTCGGTATCCAGCGGACGCACCAT  
 GATCTCACGACGCCAGCTGTTGGTGGCGCAGTCTTAGTGTCTCCATCTAAAGTGAAGCCACCAGGCTCG  
 AGCAGAGGAGGAGAGCGTCTCCAAGATGGCTTAGAAACTCTGAAGAAAGACATTAATAAGAAAGGAAA  
 ACCCCGTCATGCTCTGTTGACTTCTCCGGCTGCTGGCATGAAGACAGTTGATCCCCTGCCTCTGCGA  
 GAAGACTGTGAAGCCAATGTGCTCAGATTTGCTGATACTTCTCTGTTTCGAAAATTTGGACCGTCAGC  
 CCAGCACCCCTGGGACGCTGCCTCCATGTGCCCGCCTTACTGTATCCGTCCAGCAGGATCCAGGGCCG  
 TCTGCGAGACCCTGAGTTTCAGCACAACATGGGAAAACCCAGGAGCAACAATTTGCACTACATCCACAC  
 GATGCCTTAAATGATGAAGATGCAGATAGACTGTCTGAGATCTCTGCTCGCTCTGCAATTTCCAGCCTCC  
 GGGCTTCCAGACTCTAGCCGAGCTCAGAAAAGAAAGGAGAATTTCTGGGGCAAGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216514 representing NM\_001162905  
Red=Cloning site Green=Tags(s)

MPVRFKGLSEYQRNFWKKSYSSEYNPSVQKYSWAGLRSDQLGITKEPGFISKRRVPHYHDPQISKYLE  
WNGTVRKKDTLVPPEQAFGTPKPQAEQGEDANQEAVLSLEASRVPKRTRSHSADSRAEGVSDTVEKHQ  
GVTRSHAPVSADVELRPSSKQPLSQSIDPRVFRNKSQIIPQFQGNFTHETEKRNFKGLTPVKEPKSRE  
YLYKGNSSLEMLTPVKKADEPLDLEVDMAESEDSDQSVKPPASWRHQRLGKVNSEYRAKFLSPAQYFYKAGA  
WTRVKENLSNQSLNAMWYAEVKELREKAESYRKRVRQGFTHFSRDHLNQIMSDSNCCWDVSSVTSSSEGTVS  
SNIRALDLAGDLTNHRTQKHPPTKLEERKVASGEQPLKNSTRRLEMPEPAASVRRLKAWDAEESTKEDT  
QEEPRAEEDGREERGQDKQTCAVELEKPDTPKADRLTEGSETSSVSSGKGGRLPTPRLRELGIQRTHH  
DLTTPAVGGAVLVSPSKVKPPGLEQRRRASSQDGLETLKKDITKKGKPRPMSLLTSPAAGMKTVDPLPLR  
EDCEANLRFADTLPVSKILDRQPSTPGQLPPCAPPYCHPSSRIQGRLRDPFQHNMGKPRNNLQLHPH  
DAFNDEDADRLSEISARSAVSSLRAFQTLARAQKRKENFWGKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001162905

**ORF Size:** 2019 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\\_001162905.1](#), [NP\\_001156377.1](#)

**RefSeq Size:** 3026 bp

**RefSeq ORF:** 2022 bp

**Locus ID:** 17245

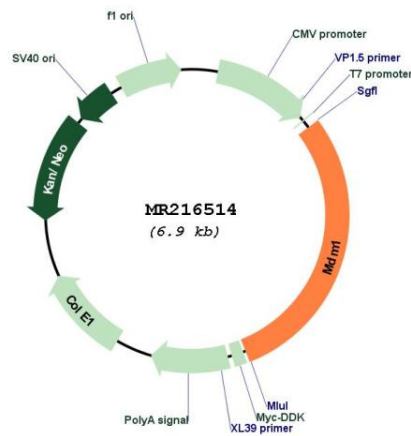
**UniProt ID:** [Q9D067](#)

**Cytogenetics:** 10 66.65 cM

**MW:** 76.1 kDa

**Gene Summary:** Microtubule-binding protein that negatively regulates centriole duplication. Binds to and stabilizes microtubules.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216514