

## Product datasheet for **MR215693**

### Mtbp (NM\_001168250) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtbp (NM_001168250) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtbp
Synonyms:	A1429604; MDM2BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR215693 representing NM\_001168250  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATCGGTA**CTT**GCTGCTGGT**CACT**GGAGGGAAGGGAAGTT**CGAT**CCGTGGCGGGTGGGAGATCG  
 AGCCTGGCACTGAGGCGACATCCCTGGAGAGCACCGACAAACAGCCGATTTGACCGCAACCAATATTTA  
 TCACCTCTTGAAGAGAAGCATCAGCGATTCAATCCATCCAGATGACAGTACATTCCTGCTTGTTCAGT  
 GGTGGCACACCTCATTCCAGGAAGTGGTCTTTGCGGTGCAAGCAATATGCGGATTTTACCAGTTTGTGA  
 GTTCTGATTGGCAAGAGATACATTTTGTGCTGAAAAAGATAAAATCGAAGATGTTCTTCAAGCAAAAT  
 AGAAGAATGTCAGAGTGTGTTGAGTGTGTTGAAGAAGATGACAGTAATAGCAGGGAATCCTTACCCTTG  
 GCTGACCTATATGAAGAATCAGCAGAAAATTTGCATCAGTTATCAGACAAGCTTCCCGCTCTGGTAGAG  
 CAATGATAGACATAATACTGTTGCCTTCTGACAAAAGCCCTCCTAAGCTAAAAGAGTCTTGCCCATTTG  
 AGGGGCCCTTGAACATCTGAAGGAATGGCATT**CAG**CAAAAGTTATCATAGCAGGAAGTTACTGTGAGATA  
 AATTGT**CAG**AAAATTGCTGAATACCTTT**CAG**CTAGTGTGCTTTAGAGAATT**CAG**AAATGCCATTG  
 ATCCGAGGGA**ACT**GTGGCGGGGAGAGATTCAGATGCGGGAACGAAAGTTTGGATTGAAATTAGTTTTCC  
 TGAATTTTGTAAAAGGAGTTACGCCTACGAATGTTAGTGCATAAATTTAAATACCTGCTTCTTGGC  
 AAGAAGATAGCATCTTCTAAGGTTTTCCATTATTATGGTCTGCTTTGGAATTTGTGAGATGATAAAAC  
 TATCAGATCTTCCCTCCTGTTACATGTCGGATATCGAGTTGAGTTAGAGGTGACTGGGCACTGCACGAG  
 GCAGAATCCATGCTGCTGTTGGAACAGATCTCTCCCTGTGTGGCAAGGTTGGTCTCTTTGTGCTG  
 CCGTGTACTGTTAGCAATGTACTCATCCACCTCCAGCCA**ACT**GGCCTCAAGAAAGTGGAAAGGAATACA  
 TGGCTAAGAAGCCCAAGACCATCAGTGTCCCGATGTTGCCGTGAAGGGAGAGTTTCTGGCTATCATCT  
 CCTGCTGCAAGGTATGGGCAAGAGAAAATGCAGAGCCACCTGCTGCACTCGGCCAGCCAGATCAATGGC  
 TCGTTT**GCA**CTCAGTGT**CATT**CATGGGAAGATGAAAACAAGGCAGGAGAAGCCAGACCGAGTTTCCCT  
 TTGACTTCTGCTACTCCCAAGTTTTCGGAGGAGCAGTTTTTACAGAGAGAGAAAACAATTAGCCAGCTT  
 TCAAGTTTTGGCTTTGAAAGAATGCCTGAAAAGAAGAAAGGCTGCAAACCAGCCGAAGCCTTTTCTGCC  
 GATGAACTCAAAGTCTGTTGGCACTCACGAGGGAGCGCTTCTAGTCACTTTGATGTTCTCCCACTG  
 AAGCAGCTTAGCACAAACAGACACCGTAAAGCTGCCGGCGTGGTAAATGATGACGGTACAGTTGAACC  
 TTATTCTCAAGCCTAATGGAAACCAATCCTCTGGAATGGCCAGAAAGACATGTTCTT**CAG**AATTTAGAA  
 ACTTCTGAAAAGCTAAACAAAAATGAGA**ACT**GGCTCATTACCGCGTTCGTCTGAACAGTTGCTGGGCC  
 ATAAAGAGGGTCCCGGGACTACTCACATTACTGGATGCTAAGGAGCTGCTGAAGTATTTACCTCGGA  
 TGGGTTACCAGTCGGAGATCTT**CAG**CCGTTACACATTCAACGGGGGATT**CAT**CAGTTGGTACATGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAA**ACT**CATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215693 representing NM\_001168250  
 Red=Cloning site Green=Tags(s)

MDRYLLLVTWREGKFRSVAGGEIEPGTEATSLESTDKQPDLTATNIYHLLKRSISDSIHPDDSTFPACSV  
 GGTPHSRKWFFAVQAICGFYQFCSSDWQEIHFDAEKDKIEDVLQANIEECQSAVECFEEDDSNSRESLPL  
 ADLYEESAENLHQLSDKLPAPGRAMIDIILLPSDKDPPKLKECLPIVGALKHLKEWHSKAKVIIAGSYCEI  
 NCQKIAEYLSASVVPLEEFRNAIDPRELWRGEIQMRERKFGFEISFPEFCLKGVTPTNVSAYNLNTCFLA  
 KKIASSKVFHYYPALFVQMIKLSDLPCYMSDIEFELEVTGHCTRQNSMLLLEQISSLCGKVGALFVL  
 PCTVSNVLI PPPSQLASRKWKEYMAKKPKTISVPDVAVKGEFSGYHLLLQGMGRKCRATLLHSASQING  
 SFALSVIHGKMKTKAGEARPSFPDFSSLPRFSEEQVLQREKQLASFQVLALKECLKRRKANQPEAFSA  
 DELKSLALLTRERFLGHFDVLPTEAALAQTDTVKAAGVVNDGTVPEYSSSLMETNPLEWPERHVLQNLN  
 TSEKAKQKMRTGSLPRSSQLLGHKEGPRDSLTLDDAKELLKYFTSDGLPVGDLQPLHIQRGIHQLVHV

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDK**V**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9042\\_e10.zip](https://cdn.origene.com/chromatograms/mm9042_e10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001168250

**ORF Size:** 1887 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\\_001168250.1](#), [NP\\_001161722.1](#)

**RefSeq Size:** 3384 bp

**RefSeq ORF:** 1890 bp

Locus ID: 105837

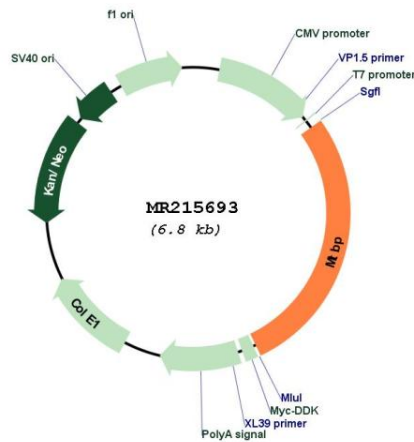
UniProt ID: [Q8BJS8](#)

Cytogenetics: 15 D1

MW: 70.8 kDa

**Gene Summary:** May play a role in MDM2-dependent p53/TP53 homeostasis in unstressed cells. Inhibits autoubiquitination of MDM2, thereby enhancing MDM2 stability. This promotes MDM2-mediated ubiquitination of p53/TP53 and its subsequent degradation. Inhibits cell migration in vitro and suppresses the invasive behavior of tumor cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR215693