

## Product datasheet for **MR211087**

### Mtbp (NM\_134092) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtbp (NM_134092) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtbp
Synonyms:	A1429604; MDM2BP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR211087 representing NM\_134092  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATCGGTA**CTT**GCTGCTGGT**CACT**GGAGGGAAGGGAAGTT**CGAT**CCGTGGCGGGTGGGAGATCG  
 AGCCTGGCACTGAGGCGACATCCCTGGAGAGCACCGACAAACAGCCGATTTGACCGCAACCAATATTTA  
 TCACCTCTTGAAGAGAAGCATCAGCGATTCAATCCATCCAGATGACAGTACATTCCTGCTTGTTCAGTG  
 GGTGGCACACCTCATTCCAGGAAGTGGTCTTTGCGGTGCAAGCAATATGCGGATTTTACCAGTTTTGTA  
 GTTCTGATTGGCAAGAGATACATTTTGTGCTGAAAAAGATAAAATCGAAGATGTTCTTCAAGCAAAAT  
 AGAAGAATGTCAGAGTGTGTTGAGTGTTTGAAGAAGATGACAGTAATAGCAGGGAATCCTTACCCTTG  
 GCTGACCTATATGAAGAATCAGCAGAAAATTTGCATCAGTTATCAGACAAGCTTCCCGCTCTGGTAGAG  
 CAATGATAGACATAATACTGTTGCCTTCTGACAAAAGCCCTCCTAAGCTAAAAGAGTGTGGCCATTGT  
 AGGGGCCCTTGAACATCTGAAGGAATGGCATT**CAGCAAAAGTT**ATCATAGCAGGAAGTTACTGTGAGATA  
 AATTGT**CAGAAAATT**GTGAATACCTTT**CAGCTAGT**GTTGTGCCTTTAGAAAGAA**TT**CAGAAAATGCCATTG  
 ATCCGAGGGA**ACT**GTGGCGGGGAGAGATTCAGATGCGGGAACGAAAGTTTGGATTGAAATTAGTTTTCC  
 TGAATTTTGTAAAAGGAGTTACGCCTACGAATGTTAGTGCGTATAATTTAAATACCTGCTTCTTGGC  
 AAGAAGATAGCATCTTCTAAGGTTTTCCATTATATGGTCTGCTTGGAAATTTGTGAGATGATAAAAC  
 TATCAGATCTTCCCTCCTGTTACATGTCGGATATCGAGTTGAGTTAGAGGTGACTGGGCACTGCACGAG  
 GCAGAATCCATGCTGCTGTTGGAACAGATCTCTCCCTGTGTGGCAAGGTTGGTCTCTTTGTGCTG  
 CCGTGTACTGTTAGCAATGTACTCATCCACCTCCAGCCA**ACT**GGCCTCAAGAAAGTGGAAAGGAATACA  
 TGGTAAGAAGCCCAAGACCATCAGTGTCCCGATGTTGCCGTGAAGGGAGAGTTTCTGGCTATCATCT  
 CCTGCTGCAAGGTATGGGCAAGAGAAAAATGCAGAGCCACCTGCTGCACTCGGCCAGCCAGATCAATGGC  
 TCGTTT**CACT**CAGTGT**CATT**CATGGGAAGATGAAAA**CA**AGGCAGGAGAAGCCAGACCGAGTTTCCCT  
 TTGACTTCTCGTCACTCCCAAGTTTTT**CGGAGG**AGCAGTTTTTACAGAGAGAGAA**CA**ATTAGCCAGCTT  
 TCAAGTTTTGGCTTTGAAAGAA**TC**CTGAAAAGAAAGGCTGCAAACCAGCCCGAAGCCTTTTCTGCC  
 GATGAACTCAAAGTCTGTTGGCACTCACGAGGGAGCGCTTCTAGTCACTTTGATGTTCTCCCACTG  
 AAGCAGCTTAGCACAAACAGACACCGTAAAGCTGCCGGCGTGGTAAATGATGACGGTACAGTTGAACC  
 TTATTCTCAAGCCTAATGGAA**CCA**ATCCTCTGGAATGGCCAGAAAGACATGTTCTT**CAGA**ATTTAGAA  
 ACTTCTGAAAAGCTAA**CA**AAAAATGAGA**ACT**GGCTCATTACCGCGTTCGTCTGAACAGTTGCTGGGCC  
 ATAAAGAGGGTCCCGGGACTCACTCACATTACTGGATGCTAAGGAGCTGCTGAAGTATTTACCTCGGA  
 TGGGTTACCAGTCGGAGATCTT**CAGCC**TTACACATTCAACGGGGGAAAAGCCTTTTGTTTGACACCA  
 GAGCTTAGTCTGGAAA**ACT**TCAGGTCTTACCTTTTAAAAAGCCTCGGAATGCCATTACCACGGGATTG  
 AATATTGCCTGGATGACCAAAAAGCTTTAGAAAGAGATGGGGGATTTTCTGAACTT**CAGT**CGCGCCTTAT  
 TCGTTACGAGACGCAGACCACCTGCACCAGAGACAGTTTTCCAGTCCCACCGTGTGAGCCCTCTTCCA  
 TCCCTGCAGTTCTGT**CAG**ACCTCAGAGTGTCCCGAAGGAGAAGCACTGCAAGGCGAACTGAGGACTG  
 AAGTTTCTGGATTGAAGCGGAGATCTAAAGACCCAGCTGCCTGTACCC**CA**AGAAAGACTTACGAGATG  
 AGAAAGTTCTGATTGTTTGCCTTCC**CA**AGCGAGTTGCAATAGTAATCATCACCATCACACAGGGAAACCC  
 AGGAAGCCTCAGGCAGAGCGCTGTGT**CAG**GGCTTCTCTGCCTGGCCGGGAAGCTTCCAAGATACCT  
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 CCAGAAACACACCGGATGCTGAAGGAGGTGGTAAAAGACACCTTGAAGAGGCACCA**CA**T**CAC**GGAGGCC  
 CATGAGAGCTT**CAC**GGCCTGCAGCCAGAGACTTTCGACATCT**CA**AGTTCTACCTGAAGGATCTGAAA  
 CATCAAGGGTCTCTTTGAA**AA**TGAAGAAAACGCCAA**CA**CAATGTGGTGCAGGTGATCGAATGGT  
 GGTAGAAAAGATGAGCAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAA**ACT**CATCTCAGAAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211087 representing NM\_134092  
 Red=Cloning site Green=Tags(s)

MDRYLLLVTWREGKFRSVAGGIEPGTEATSLESTDKQPDLTATNIYHLLKRSISDSIHPDDSTFPACSV  
 GGTPHSRKWFFAVQAICGFYQFCSSDWQEIHFDAEKDKIEDVLQANIEECQSAVECFEEDDSNSRESLPL  
 ADLYEESAENLHQLSDKLPAPGRAMIDIILLPSDKDPPKLECLPIVGALKHLKEWHSAKVIIAGSYCEI  
 NCQKIAEYLSASVVPLEEFRNAIDPRELWRGEIQMRERKFGFEISFPEFCLKGVTPTNVSAYNLNTCFLA  
 KKIASSKVFHYYGPALEFVQMIKLSLPCYMSDIEFELEVTGHCTRQNSMLLLEQISSLCGKVGALFVL  
 PCTVSNVLIPPPSQLASRWKEYMAKKPKTISVPDVAVKGEFSGYHLLLQGMGRKCRATLLHSASQING  
 SFALSVIHGKMKTKAGEARPSFPDFSSLPRFSEEQVLQREKQLASFQVLALKECLKRRKAANQPEAFSA  
 DELKSLALTRERFLGHFDVLPTEAALAQTDTVKAAGVNDGTVPEYSSSLMETNPLEWPERHVLQNL  
 TSEKAKQMRTGSLPRSEQLLGHKEGPRDSL TLLDAKELLKYFTSDGLPVGDLQPLHIQRGEKPFVLT  
 ELSPGKLQVLPFEKASECHYHGIEYCLDDQKALERDGGFSELQSRLIRYETQTTCTRDSFPVPTVLSPLP  
 SPAVLSEPVPEGEALQGELRTEVSGLKRRSKDPSCLYPQKRLTRSESSDCLPSQASCNSHHHHTGKP  
 RKPQAERCVSGPLPGREASKDTSKTSQGKRAHESKSSKQMKESRSQKHTRMLKEVVKDTLKRHHITEA  
 HESFTACSQRLFDISKFYLDKDKT SRGLFEEMKKTANNVVQVIEVWVVEKMSKK

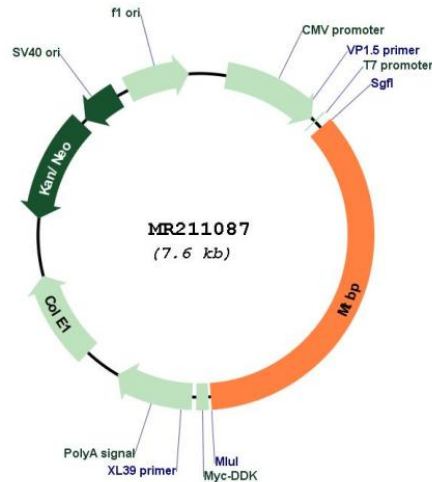
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_134092

**ORF Size:** 2682 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\\_134092.3](#), [NP\\_598853.3](#)

**RefSeq Size:** 3164 bp

**RefSeq ORF:** 2685 bp

**Locus ID:** 105837

**UniProt ID:** [Q8BJS8](#)

**Cytogenetics:** 15 D1

**MW:** 100.8 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]