

Product datasheet for **RR202139**

Mtbp (NM_001130717) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtbp (NM_001130717) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtbp
Synonyms:	RGD1565672
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202139 representing NM_001130717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCGGTA**CTT**GCTGCTGGT**CAGCT**GGAGGGAAGGAAAGTTCCGATCCGTGGCTGGTGGGGAGATGG
 AGCCCGGACTGAGGCGTCATCCCTGGAGAGCACCGAGAAACAGCCTCATTGACAGCAACCAATATTTA
 TCACCTCTTGAAGAGAAGCATTAA**TGATT**CAATCCATCCAGATGATAGTACGTTCCCCGCTTGTTCAGT
 GGCGGCACCCCTCACTCCAGGAAGTGGTCTTTGCAGCGCAAGCAATATGTGGATTTACCAGTTCTGTA
 GTTCTGATTGGCAAGAGATACATTT**CGAT**GCTGAAAAAGATAAAATCGAAGATGTCCTTCAAGCAAAATGT
 GGAAGAATGTCAGAGCGCTGTTGAGTGC**TTT**GAAGAAGATGACAGTAATAGCAGGGAGTCCCTTGCCTTG
 GCTGATCTATATGAAGAATCAGCAGAAAATCTGCATCAGTTATCAGACAAGCTTCTCTGCTCTGGTAGAG
 CAATGATAGATGTAATACTATTGCCTTCTGACAAAGATCCTCTAAATTTAAAGAGTGCCTGGCCATTGT
 GGGGGCCTTGAACATCTGAAGGAATGGCATT**CAGCAAAAGTT**ATCGTAGCAGGAAGTCACTGCGAGACA
 AATTGTCAGAAAATTGCAGAATACCTTT**CAGCT**ACTGTTGTACCTTTAGAGGAGTTCGGAATGCCATTG
 ACTCGAGGGA**ACT**GTGGAGGGGAGAGATTCAGATGCGGGAACGAAAGTTTGGATTTGAAGTTAATTTTCC
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 TAGTAAAGAGCCCAAGACCATCAGTGTCCCCGACGTCGACGTGAAAGGAGAGTTTCTGGCTATCATCT
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 AAGCAGTTTTAACACAGACAGACACCATGAAAGCTGCTGGCATGGTAAATGATGCCAGTAGAGTTGAATC
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 ACTTCTGAAAAGCTAAACAAAAATGAGA**ACT**GGCTCATTACCGCATTCCGGCTGAACAGTTGCTGGGCC
 ATAAAGAGGGTCCCGGACTCAATCACATTACTGGATGCTAAGGAATTGCTGAAATATTTACCTCGGA
 GGGATTACCAGTCGGAGATCTT**CAGCC**TTACAGATTCAAAGGGGGGAAAAGCCTTTTGTGTTGACACCA
 GAGCTTAGTCTGGAAA**ACT**TCAGATCTTACCTTTGAAAAGCCTCGGAATGCCATTACCACGGGATTG
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 TCCCTGCAGTTCTGT**CAGAG**CTCAGAGTGTCCCTGAAGGAGACGCATTGCAAGGCGAACTCCGA**ACT**G
 AAGTTTCTGGATTGAAACGGAGATCTAAAGACGCCAGTTGCCTTTACCC**CAGAAA**GAATTACAAAATC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202139 representing NM_001130717
 Red=Cloning site Green=Tags(s)

MDRYLLLVSWEKGRFRSIVAGGEMEPGTEASSLESTEKQPHLTATNIYHLLKRSINDSIHPDDSTFPACSV
 GGTPHSRKWFFAAQICGFYQFCSSDWQEIHFDAEKDKIEDVLQANVEECQSAVECFEEDDSNSRESLSL
 ADLYEESAENLHQLSDKLPAPGRAMIDVILLPSDKDPPKLECLPIVGALKHLKEWHSKAKVIVAGSHCET
 NCQKIAEYLSATVVPLEEFGNADSRELWRGEIQMRERKFGFEVNFPEFCLKGVTPTNVSAYNLNTCFLA
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 PCTISNVLPPPNQLASRKWKEYIAKKPKTISVPDVKGEFSGYHLLQSGRRKCRATLLHSASQING
 SVALTLIHGKMKARTEAAQPSFPDFSSLPFSEEQVLQREKQLASVQVLALKECLKRRKAANQPEAVST
 DELKSLALTRERFLDRFDVLTAVLQTDTKAAGMVNDASRVESYSSSMETNPLEWPERHVLQNL
 TSEKAKQMRTGSLPHSAEQLLGHKEGPRDSITLLDAKELLKYFTSEGLPVGDLQPLQIQRGEKPFVLT
 ELSPGKLIPLFEKASECHYHIEYCLDDQKALERDGGFSELQSRLIRYETQTTCTRDSFPVPTVWSP
 SPAVLSEPVQVPEGDALQELRTEVSGLKRRSKDASCLYPQKRITKSESSDCLLSQASCNSNHYHHVGT
 RKPQAERCYVLPPLPGREASKVTVKTSSGQKRAHESKSSKQIKESRSQKHTRMLKEVVTETLKRHHITE
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

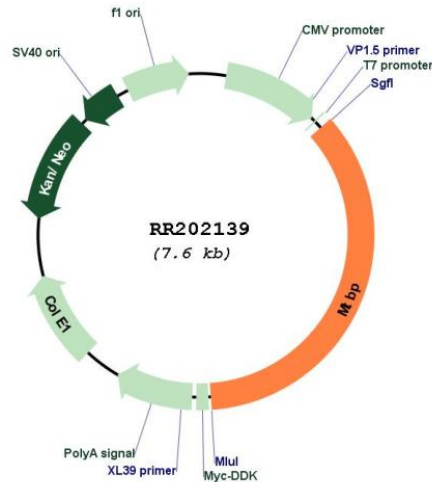
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001130717

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_001130717.1](#), [NP_001124189.1](#)

RefSeq Size: 3294 bp

RefSeq ORF: 2685 bp

Locus ID: 500870

Cytogenetics: 7q32

MW: 100.4 kDa