

Product datasheet for **RG204388**

MTBP (NM_022045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTBP (NM_022045) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTBP
Synonyms:	MDM2BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG204388 representing NM_022045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCGGTACCTGCTGCTGGTATCTGGGGGAAGGAAAATCCCGTCGGCGGCCAGTAGGGAGGCAG
 AACATGGGCCAGAGGTGTCGTCGGGTGAGGGTACTGAGAATCAGCCGGACTTCACAGCAGCAAATGTTTA
 TCACCTCTTGAAAAGAAGCATTAGTGCTCAATTAATCCAGAAGATAGTACTTCCCTGCCTGTTCACTG
 GGAGGTATACCTGGTTCCAAGAAGTGGTCTTTGCAGTGCAGGCAATATATGGATTTTATCAGTTTTGTA
 GTTCTGATTGGCAAGAGATACATTTTGATACAGAAAAAGATAAAATTGAAGATGTTCTTCAAACGAAT
 CGAAGAATGTTTGGTGTCTGTTGAGTGTGTTGAAGAAGAAGACAGTAATAGCAGGGAATCATTATCCTTG
 GCTGATCTCTATGAAGAAGCTGCAGAAAATTTGCATCAGCTGTCAGACAAGCTTCTGCTCCTGGTAGAG
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 AGGAGCATTAAAACATTTGAGAGAAATGGTATTCAGCAAAGATCACTATAGCAGGAAATCATTGTGAATA
 AACTGTCAGAAAATTGCAGAATACCTTTCTGCTAATGTTGTATCTTTAGAAGATCTCAGAAAATGTTATTG
 ACTCAAAGGAATTATGGAGGGGGAAAATACAGATATGGGAAAGAAAGTTGGATTTGAAATTAGTTTTCC
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 GGTGCTCTTTTGTATTGCCATGTACCATTAGTAACATACTGATCCACCTCCCAACCACTCAGTTCAA
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 GCCAACCCAGATCAATGGCTCATTGCACTCAATTTAATTCATGGAAGATGAAAACAAAGACAGAAGAAG
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 TCTCTAAGTTCTATCTAAAGGATCTTAAAACCTCAAGGGTCTATTTGAAGAAATGAAGAAAACAGCAA
 CAACAATGCTGTACAGGTATTGACTGGGTATTAGAAAAGACAAGCAAGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG204388 representing NM_022045
 Red=Cloning site Green=Tags(s)

MDRYLLLVIWGEKGFPSAASREAHEGPEVSSGEGTENQPDFTAANVYHLLKRSISASINPEDSTFPACSV
 GGIPGSKKWF FAVQAIYGFYQFCSSDWQEIHFDETEKDKIEDVLQTNIEECLGAVECFEEDSNSRESLSL
 ADLYEEAAENLHQLSDKLPAPGRAMVDIILLSDKDPPKLDYLPVGLKHLREWYSAKITIAGNHCEI
 NCQKIAEYLSANVVSLEDLRNVIDSKELWRGKIQIWERKFGFEISFPEFCLKGVTLKNFSTNLNTDFLA
 KKIIIPSKDNILPKVFHYGPALEFVQMIKLSLDPSCYMSDIEFELGLTNSTKQNSVLLLEQISSLC SKV
 GALFVLPCTISNILIPPPNQLSSRKWKEYIAKKPKTISVPDVEVKGECSSYLLQLQNGNRRCKATLIHS
 ANQINGSFALNLIHGKMKTKTEEAKLSFPFDLLSLPHFSGEQIVQREKQLANVQVLALIEECLKRRKLAKQ
 PETVSVAEKSLLVLRKHFLDYFDAVIPKMILRKMDKIKTFNINLDFSPVEPNSSSLMETNPLEWPERH
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 TFVLTPELSPGKLQVLPFEKASVCHYHGIEYCLDDRKALERDGGFSELQSRILIRYETQTTCTRESFPVPT
 VLSPLPSPVSSDPGSVPDGEVLQNELRTEVSRLKRRSKDLNCLYPRKRLVKSESSESLLSQTTGNSNH
 HHHVTSRKPQTERSPLVTCPLVIPSCETPKLATKTSQGKSMHESKTSRQIKESRSQKHTRILKEVVTE
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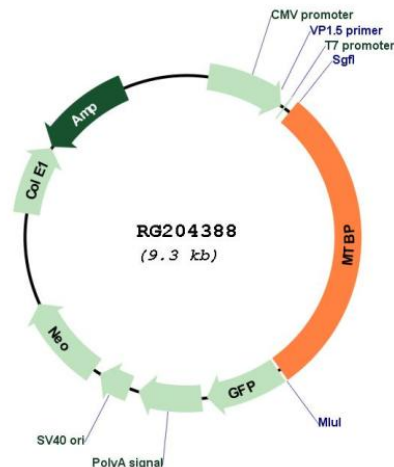
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_022045

ORF Size: 2712 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_022045.5](#)

RefSeq Size: 3081 bp

RefSeq ORF: 2715 bp

Locus ID: 27085

UniProt ID: [Q96DY7](#)

Cytogenetics: 8q24.12

Gene Summary:

This gene encodes a protein that interacts with the oncoprotein mouse double minute 2. The encoded protein regulates progression through the cell cycle and may be involved in tumor formation. [provided by RefSeq, Aug 2012]