

Product datasheet for **RG201683**

TFB2M (NM_022366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFB2M (NM_022366) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFB2M
Synonyms:	Hkp1; mtTFB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201683 representing NM_022366 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTGGATCCCAGTGGTCGGGCTTCCTCGGCGGCTGAGGCTCTCCGCCTTGGCGGGCGCTGGTCGCTTTT
GCATTTTAGGGTCTGAAGCGGCGACGCGAAAGCATTTGCCGGCGAGGAACCACTGTGGGCTCTTGACTC
CTCTCCGAGCTGTGGCCGAACCGGATTCAGGAATCCGCCAAGGAAGGCGTCTAAGGCCAGCTTAGAC
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GACCTCCACACCTACTGCTGGAGTGCAATCCAGGTCCTGGAATCCTGACTCAGGCATTACTGAAGCTGG
TGCCAAAGTGGTTGCGCTCGAAAGTGACAAAATTTTATTCCACATTTGGAGTCCTTAGGAAAAAATCTG
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CACCTGCTATGTCTTCTCGAGGGCTCTTTAAGAATTTGGGAATAGAAGCAGTTCCCTTGGACAGCAGACAT
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TTGTATTCCTGTACTTCTATATATAAATTTGGACGAATAGAAGTAAATATGTTTATTGGTGAAAAAGAAAT
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TTGTGAGATTAAGGTTCTGCACATGGAGCCTTGGTCATCATTTGATATATACACCCGAAAGGGCCGCTG
GAAAACCCAAAGCGTAGGGAATTATTAGACCAATTACAACAAAAGCTGTATCTTATCAAATGATTCCTC
GTCAAAATTTATTACCAAGAACTTAACACCTATGAACATAATATATTTTTCACCTGTTAAAGCACTG
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TTGATGCAAAATAGGAAAACAGGAGGATGAGAAAGTAGTTAACATGCACCCTCAAGACTTCAAACACTTT
TTGAACTATAGAGCGTTCCAAAGATTGTGCTTATAATGGCTGTATGATGAAACCCTGGAAGATAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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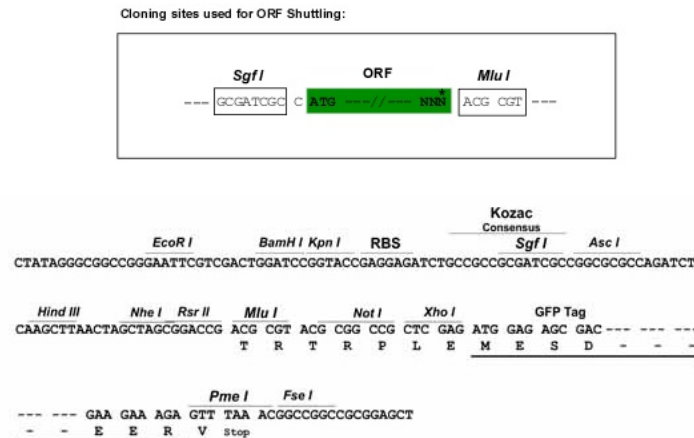
Protein Sequence: >RG201683 representing NM_022366
 Red=Cloning site Green=Tags(s)

MWIPVVGLPRLRLSALAGAGRFCILGSEAATRKHLPARNHCGLSDSSPQLWPEPDFRNPPRKASKASLD
 FKRYVTDRLAETLAQIYLGKPSRPPHLLLECNPGPGILTQALLEAGAKVVALESDKTFIPHLESLGKNL
 DGKLRVIHCDFFKLDPRSGGVKPPAMSSRGLFKNLGLIEAVPWTADIPLKVVMFPPSRGEKRALWKLAYD
 LYSCTSIYKFGRIEVMFIEGEFQKLMADPGNPDLYHVLVSIWQLACEIKVLHMEPWSSFDIYTRKGPL
 ENPKRRELLDQLQKLYLIQMIPRQNLFTKNLTPMNYNIFHLLKHCFGRRSATVIDHLRSLTPLDARDI
 LMQIGKQEDEKVVNMHPQDFKTLFETIERSKDCAWKLYDETLEDR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022366

ORF Size: 1188 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022366.1](#), [NP_071761.1](#)

RefSeq Size: 1803 bp

RefSeq ORF: 1191 bp

Locus ID: 64216

UniProt ID: [Q9H5Q4](#)

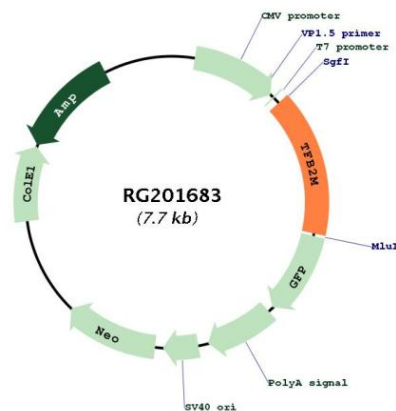
Cytogenetics: 1q44

Domains: rADc

Protein Families: Transcription Factors

Gene Summary: S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. Also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. Stimulates transcription independently of the methyltransferase activity. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201683