

Product datasheet for MR205191

Tfb1m (BC032930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfb1m (BC032930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tfb1m
Synonyms:	MGC41387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205191 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCTCGGGGAAGCTCGGCACTTCCGCCCTCCCGGTTGCCACCATTCCGGGAGATCATTAAAGT
TGTTCCGACTGCGAGCGGTGAAACAGCTTCCAGAAATTCCTCCTGGACTTGAGGCTGACAGACAAGAT
TGTAAGGAAAGCTGGCAGTCTAGCAGATGTTTATGTTTATGAAGTGGTCTGGGCCCGGGGAATCACA
AGATCCATCCTGAATGCCAACGTTGCTGAGCTTCTGGTGGTTGAAAAGGACTCGCTTTATCCCAGGGT
TACAGATGCTCTGATGCAGCACCTGGAAAACCCGAATTGTTTCATGGAGATGTGCTGACATACAAGAT
AGAAAAGGCTTTCCAGGCAACATTAGAAGACAGTGGGAAGATGATCCTCCAAATGTACACATTATTGGA
AATCTACCTTTTAGTGTTTCAACTCCACTGATTATCAAGTGGCTTAAAAATTTCTCTTAAAGATGGCC
CTTTCTGTTTATGGCAGAATAAGATGACGTTAACGTTTCAAAGGAAGTGGCTGAGAGACTTGTAGCCAC
TACAGGAAGCAACAGCACAGTCGCCTTCCATTATGGCCAGTACCTCTGCAATGTTGAACACCTCTTT
ACAATCCCAGGAAAAGCTTTTGTCCAAACAAAAGTTGATGTAGGAGTGGTGCACCTTACGCCCTTGA
TAGAGCCCAAGATCAAGCAGCCATTCAAGCTGGTAGAAAAAGTTGCCAGAATGCGTTTCAGTTTCGAAG
GAAATATTGCCACCGAGGGCTTGAATGTTATTCCTGAAGCACAAACGCTCGAAAGCACTGGAAGGCTG
TTACAGTTGGCAGACATTGATCCAACCTCCGGCCACCACCTCTCGCTCATGATTTTAAAGATTTGT
GTGATGTATACAGAAAAATGTGTGATGAAGACCCACAACCTTTACTTATAACTTCAGAGAGGAGCTCAA
GCAAAAAGAAAAGTAAAGGCCAAGAAAAGATGGTGACCCAGAAAGCTGCGGGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205191 protein sequence
Red=Cloning site Green=Tags(s)

MAASGKLGTFRLPPLPTIREIIKLFGLRAVKQLSQNFLDLRLTDKIVRKAGSLADVVYVEVGPGGIT
 RSILNANVAELLVVEKDTRFIPGLQMLSDAAPGKLRIVHGDVLYKIEKAFPGNIRRQWEDDPPNVHIIIG
 NLPFVSSTPLIIKWLENI SLKDGPFVYGRKMTLTFQKEVAERLVATTGSKQHSRLSIMAQYLCNVEHLF
 TIPGKAFVPKPKVDVGVVHLTPLIEPKIKQPFKLVKVVQNAFQFRKYCHRGLGMLFPEAQRLESTGRL
 LQLADIDPTLRPHLSLMHFKSLCDVYRKMCEDEPQLFTYNFREELKQKSKGQEKDGDPESCGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC032930

ORF Size: 1035 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: [BC032930](#), [AAH32930](#)

RefSeq Size: 1360 bp

RefSeq ORF: 1037 bp

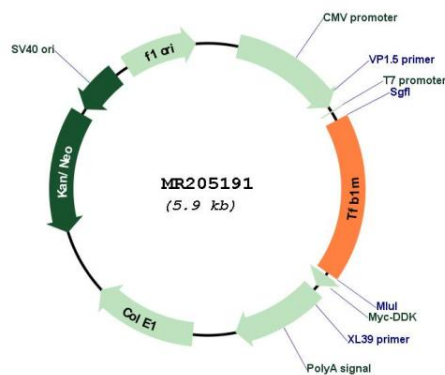
Locus ID: 224481

Cytogenetics: 17 A1

MW: 39 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205191