

Product datasheet for **MG205191**

Tfb1m (BC032930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfb1m (BC032930) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tfb1m
Synonyms:	MGC41387
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205191 representing BC032930 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCTCGGGGAAGCTCGGCACTTCCGCCCTCCCGGTTGCCACCATTCCGGAGATCATTAAAGT
TGTTCCGACTGCGAGCGGTGAAACAGCTTCCAGAAATTCCTCCTGGACTTGAGGCTGACAGACAAGT
TGTAAGGAAAGCTGGCAGTCTAGCAGATGTTTATGTTTATGAAGTGGTCTGGGCCGGGGAATCACA
AGATCCATCCTGAATGCCAACGTTGCTGAGCTTCTGGTGGTTGAAAAGGACTCGCTTTATCCCAGGT
TACAGATGCTCTGATGCAGCACCTGGAAAACCCGAATTGTTTCATGGAGATGTGCTGACATACAAGT
AGAAAAGGCTTTCCAGGCAACATTAGAAGACAGTGGGAAGATGATCCTCAAATGTACACATTATTGGA
AATCTACCTTTTAGTGTTTCAACTCCACTGATTATCAAGTGGCTTAAAAATTTCTCTTAAAGATGGCC
CTTTCGTTTATGGCAGAATAAGATGACGTTAACGTTTCAAAGGAAGTGGCTGAGAGACTTGTAGCCAC
TACAGGAAGCAACAGCACAGTCGCCTTCCATTATGGCCAGTACCTCTGCAATGTTGAACACCTCTT
ACAATCCCAGGAAAAGCTTTTGTCCAAACAAAAGTTGATGTAGGAGTGGTGCACCTTACGCCCTTGA
TAGAGCCCAAGATCAAGCAGCCATTCAAGCTGGTAGAAAAAGTTGCCAGAATGCGTTTCAGTTTCGAAG
GAAATATTGCCACCGAGGCTTGGAAATGTTATCCCTGAAGCACAAACGCTCGAAAGCACTGGAAGGCTG
TTACAGTTGGCAGACATTGATCCAACCTCCGGCCACCACCTCTCGCTCATGATTTTAAAGATTTGT
GTGATGTATACAGAAAAATGTGTGATGAAGACCCACAACCTTTTACTTATAACTTCAGAGAGGAGCTCAA
GCAAAAAGAAAAGTAAAGGCAAGAAAAGATGGTGACCCAGAAAGCTGCGGGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205191 representing BC032930
 Red=Cloning site Green=Tags(s)

MAASGKLGTFRLPPLPTIREIIKLFGLRAVKQLSQNFLDLRLTDKIVRKAGSLADVVYVEVGPGGGIT
 RSILNANVAELLVVEKDTRFIPGLQMLSDAAPGKLRIVHGDVLTYKIEKAFPGNIRRQWEDDPPNVHIIG
 NLPFSVSTPLIIKWLNI SLKDGPFVYGR TKMTLTFQKEVAERLVATTGSKQHSRLSIMAQYLCNVEHLF
 TIPGKAFVPKPKVDVGVVHL TPLIEPKIKQPFKLVEKVVQNAFQFRKYCHRGLGMLFPEAQRLESTGRL
 LQLADIDPTLRPHLSLMHFKSLCDVYRKMCDDEDPQLFTYNFREELKQKSKGQEKDGDPESCGF

TRTRPLE - GFP Tag - V

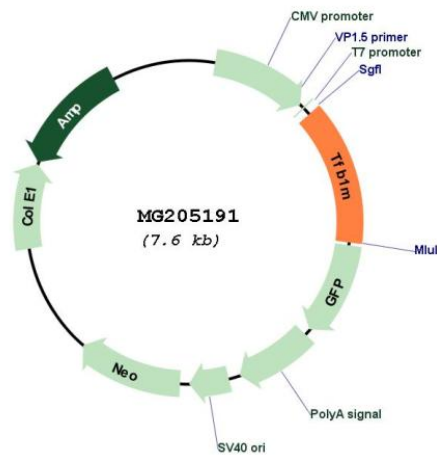
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC032930

ORF Size: 1037 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:	<ol style="list-style-type: none">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
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]